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ABSTRACT

This report describes the activities of the Resource and Referral Service (RRS), which was established in 1977 as a member of a nationwide dissemination network called the Research and Development Exchange (RDx), in using electronic networks as part of its dissemination effort. Discussed first are the history and objectives of RRS. The next chapter provides information on various national and state electronic networks, including target audience, content, and contact person. The third section relates the ways in which RRS participated in selected electronic networks between December 1, 1984, and September 30, 1985, and offers guidelines for joining and contributing information to networks. Included in the next section are profiles of 18 national/international and 12 state networks. Each profile contains information concerning some or all of the following: sponsor, cost, target audience, information contact, special features, program content, and start-up date. Appendixes to the guide include ERIC digests on electronic networks and on networking and microcomputers, addresses of agencies and organizations mentioned in the report, a brochure describing RRS, examples of information contributed to various electronic networks, a list of resources, and a list of related readings. (MN)

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RESOURCE AND REFERRAL SERVICE: A REPORT ON ELECTRONIC NETWORKS FOR EDUCATORS

Ruth Gordon
Jay Smink

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

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FOREWORD

Electronic networks enable their members to communicate with each other via computer. Such features as electronic mail, bulletin boards, and computer conferencing have quickly been accepted as fast, efficient, and cost-effective alternatives to other forms of communication.

The Resource and Referral Service (RRS) has contributed to the literature on this topic by compiling information on electronic networks that educators are using for communication and by describing how the project has used some of these networks to disseminate information on organizational resources and R&D outcomes. The report should be of interest to educators and others who use (or wish to use) electronic networks to reach target audiences. It can serve as a guide for those desiring to learn about computer communication.

The National Center is indebted to the RRS staff for their efforts in exploring this new area. Dr. Jay Smink, Senior Research Specialist, served as Project Director; Ruth Gordon, Program Associate, conducted the activities and prepared the report; Cheryl Harrison, Program Assistant, provided editorial assistance; and Clarine Cotton, Typist II, typed the document.

We wish to thank the persons associated with the electronic networks who supplied and verified the network descriptions. Special thanks are due to Chuck Lynd, systems operator of Education Forum, for his technical assistance in using electronic networks.

Critical reviews of the report were provided by Dr. David L. Foster, Dissemination Specialist, Southwest Educational Development Laboratory, Austin, Texas; and Dr. Wesley E. Budke and Dr. Norman Singer, both Senior Research Specialists at the National Center.

Recognition is also due to Judy Balogh, Program Associate, who provided the editorial review, and to Janet Ray, word processor operator.

Robert E. Taylor
Executive Director
The National Center for Research
in Vocational Education

EXECUTIVE SUMMARY

This report describes the activities of the Resource and Referral Service (RRS) in using electronic networks as part of its dissemination effort. Established in 1977 as a member of a nationwide dissemination network called the Research and Development Exchange (RDx), RRS has developed a database of organizational resources, Resource Organizations and Meetings for Educators (ROME), and has published several directories of educational resources.

Project staff identified and compiled information about existing national and state networks that have been developed to link various educational groups. This information is presented in the report as network profiles that include the name of the network, target audience, cost, method of access, features, a brief description of content, and start date. Staff used several networks to disseminate information on upcoming professional meetings, resource lists available at no charge, and research findings. These dissemination activities included submitting information to several networks and actively participating in one network by developing data files and monitoring their use. Staff also responded to requests that resulted from the various network announcements. Based on the project's experiences, the following steps are suggested for persons having similar dissemination needs: identify existing networks of interest and request detailed information on costs, features, and number of users; determine dissemination requirements; decide which electronic networks meet all or some of these requirements; considering costs and benefits, decide which networks (if any) to join; submit information for announcement on other networks; and keep up to date on new networks that are formed. In addition to the network profiles, the report includes references to the literature on the topic and examples of the information disseminated.

INTRODUCTION

Background: The Resource and Referral Service

The Resource and Referral Service (RRS) was established in 1977 as part of a nationwide dissemination network called the Research and Development Exchange (RDx). The purpose of the RDx is to encourage and facilitate the exchange of information among researchers, developers, and practitioners.

RRS gathers, processes, and disseminates information of use to professionals in the education field. Resource Organizations and Meetings for Educators (ROME), the project's public database (available through BRS Information Technologies), houses most of the information processed by RRS staff. This information includes profiles of nonprofit organizations, products, projects sponsored by The National Institute of Education (NIE), and announcements of professional meetings, seminars, and workshops.

In addition to the ROME database, information on organizational resources has been disseminated to educators over the years in several products. RRS has published three directories: Databases and Clearinghouses: Information Resources for Education (five editions); Human Resource Directories and Files in Education (two editions); and Catalog of Resources for Improving Reading, Writing, and Oral Communication Skills. A semiannual calendar, the RRS Meetings Exchange, provides education professionals with key information on meetings and other professional development activities. RRS has also developed 47 titles in its Mini-List series, a set of brochures listing resources on topics

of interest. Mini-Lists are widely distributed at conferences and by professional associations to their members.

RRS staff search periodically for new dissemination ideas that might assist them in their work. The rapid growth of electronic networks over the past few years sparked RRS' interest in learning more about these networks and how they can be used to disseminate information to target audiences.

Through various experiences, staff members had gained basic knowledge of electronic communications before the present activity began. For example, RRS began working with electronic networks in 1981 as a member of a vocational education network, using the electronic message switching capabilities of BRS Information Technologies (then Bibliographic Retrieval Services.) Since January 1983, RRS staff have selected and announced meetings of interest to vocational educators. These announcements appeared in the National Center's electronic newsletter VOCN, which was replaced by Memo Newswire in 1985. RRS staff have also monitored the Source, an information utility, since May 1984, for National Center mail. With this background, then, RRS staff began to examine electronic networks as tools for dissemination.

Purpose and Objectives

This report documents project activities for the time period December 1, 1984, through September 30, 1985, in the area of electronic networks. The objectives are to describe the various networks identified by project staff, detail the project's experiences in contributing information to selected networks, offer results and guidelines based on these experiences, and provide references to related resources. The report may serve as a guide for educators who are considering becoming involved in electronic communication and for anyone interested in using electronic networks in dissemination efforts.

ELECTRONIC NETWORKS

To identify and compile information about electronic networks, project staff conducted the following activities: screened the materials and resources of the National Center, contacted members of the education community, conducted a computer search of online databases (ERIC, Microcomputer Index, and Computer Database), and reviewed the content of the networks that were accessible to the project.

The literature review yielded a number of resources relevant to electronic networks and these are noted in this report: publications are identified in appendix E and specific journal articles and documents are listed in the section entitled RELATED READINGS. The ERIC Digest "Electronic Networks" provides an excellent overview of the topic and is included in appendix A, along with the ERIC Digest on networking and microcomputers. Readers unfamiliar with these concepts would benefit by reading these Digests before continuing with the text.

Project staff identified and compiled information about 18 national/international networks and 12 state networks. They are sponsored by national associations, federal and state education agencies, universities, for-profit companies, and other groups. Some are private networks established to serve a specific association or group. The networks were selected because they have the following characteristics:

- They are used for purposes of communication rather than instruction (although some may be used for both purposes).
- They link educators at more than one institution.

- They offer distinctive features to members, such as a bulletin board or newsletter.

Tables 1 and 2 present summary information about these networks. A detailed description of each network appears in the section entitled NETWORK PROFILES. Some of these networks are accessible by direct-dial calling to another computer. A password may be required and a fee charged. Others are accessible by subscribing to an information utility. Information utilities are companies that provide electronic mail services. They may also offer a range of services in such areas as business, education, entertainment, news, leisure, and the home. Examples of information utilities are BRS Information Technologies, CompuServe, EasyLink, The Electric Pages (serving Texas), ITT Dialcom, and the Source. Information utilities charge a subscription fee and a rate per connect hour for the time spent using the system. Three major information utilities reported the number of their subscribers, as of September 1985, as follows:

- CompuServe has over 230,000 subscribers and adds about 2,000 new subscribers per week.
- ITT Dialcom has approximately 120,000 subscribers in the United States and 30,000 in other countries.
- The Source estimates the number of subscribers as 60,000 to 62,000.

Some networks, such as ED-LINE and SpecialNet, are umbrella networks that include a large number of subnetworks sponsored by various groups. To identify the groups participating as subnetworks, a listing of all organizations and their network affiliation is shown in figure 1. The addresses for national organizations and the information utilities are included in appendix B. Figure 1 also serves as an indicator of target audience, since association members are linked by common concerns. Target audience and subject of the

TABLE 1

NATIONAL ELECTRONIC NETWORKS

Network/Access	Target Audience	Content	Information Contact
ADCIS Forum CompuServe	Professionals in computer-based education and training	Information exchange and data files contributed by forum members	CompuServe, Inc. 5000 Arlington Centre Boulevard P.O. Box 20212 Columbus, OH 43220 (614) 457-8600
ADVOCNET ITT Dialcom	Federal, states, and local adult, vocational, and technical education personnel	Includes newsletters on program improvement, entrepreneurship, and National Center products	Wes Budke, Rita Horn, Judy Wagner The National Center for Research In Vocational Education The Ohio State University 1960 Kenny Road Columbus, OH 43210-1090 (614) 486-3655 (800) 848-4815 (within continental United States except Ohio)
Ag Ed Network AgriData Network	High school agriculture teachers	Curriculum, software reviews, idea exchange, and news from Future Farmers of America headquarters	Larry Squire Ag Ed Network 330 East Kilbourn Avenue Milwaukee, WI 53202 (414) 278-7676 (800) 558-9044; (800) 242-6001 in Wisconsin
BETNET BRS Information Technologies	Bilingual education organizations, state and local education agencies	Newsletter on a variety of relevant topics, job bank, and database of document abstracts	Technical Assistance Unit National Clearinghouse for Bilingual Education 1555 Wilson Boulevard, Suite 605 Arlington, VA 22209 (800) 336-4560 (outside Virginia) (703) 522-0710 (in Virginia)
DCI Deafnet GTE Telemail	Deaf and hearing-impaired persons	Information exchange	Brenda Monene Deaf Communications Institute P.O. Box 247 Fayville, MA 01745 (617) 872-9406 VOICE and TDD

TABLE 1--Continued

Network/Access	Target Audience	Content	Information Contact
ED-LINE the Source	Educators at all levels	Includes several national, regional, and state subnetworks plus bulletin boards on a variety of topics	Laura Bono National School Public Relations Association 1501 Lee Highway, Suite 201 Arlington, VA 22209 (703) 528-5840
Education Forum CompuServe	Teachers, parents, and all persons interested in education	Information exchange and data files on a wide range of educational concerns	CompuServe, Inc. 5000 Arlington Centre Boulevard P.O. Box 20212 Columbus, OH 43220 (614) 457-8600
Educational Research Forum CompuServe	Educational researchers	Research findings (files correspond to divisions of the American Educational Research Association)	CompuServe, Inc. 5000 Arlington Centre Boulevard P.O. Box 20212 Columbus, OH 43220 (614) 457-8600
EDUTEL CompuServe	Computer educators and all persons interested in educational technology	Curriculum, software news and reviews, hardware, policy issues	Anita Best International Council for Computers in Education University of Oregon 1787 Agate Street Eugene, OR 97403 (503) 686-4414
Electronic Information Exchange System (EIES) New Jersey Institute of Technology	Nonprofit organizations, government agencies, and community groups	Communication using computer technologies	Computerized Conferencing and Communications Center 323 Martin Luther King Boulevard Newark, NJ 07102 (201) 596-3437

TABLE 1--Continued

Network/Access	Target Audience	Content	Information Contact
EPIE Forum CompuServe	Teachers, parents, and community educators	Educational courseware, products, and services	EPIE Institute P.O. Box 839 Water Mill, NY 11976 (516) 283-4922
Foreign Language Education Forum CompuServe	Educators, students, and professionals in foreign language education	Information exchange and data files on topics related to foreign language education	CompuServe, Inc. 5000 Arlington Centre Boulevard P.O. Box 20212 Columbus, OH 43220 (614) 457-8600
4-Sights Network Direct dial	Visually impaired persons and persons who work with or assist the visually impaired	Rehabilitation, technological aids, and issues of visual impairment	Benjamin J. Pumo Greater Detroit Society for the Blind 16625 Grand River Detroit, MI 48227 (313) 272-3900
JTPAnet Direct dial	Employment and training agencies, private industry councils, national and state organizations, state, county, and city governments	Laws and regulations for JTPA and guidelines for funding sources	Jim Masters Center for Community Research P.O. Box 5309 Elmwood Station Berkeley, CA 94705 (800) 843-2687
MAILNET Direct dial	Higher education institutions	Intercampus electronic mail network	Candice Willut EDUCOM P.O. Box 364 Princeton, NJ 08540 (609) 734-1878
Science/Math Education Forum CompuServe	Teachers, students, and all persons with an interest in science or mathematics	Software, practice problems, science updates, and job bank	CompuServe, Inc. 5000 Arlington Centre Boulevard P.O. Box 20212 Columbus, OH 43220 (614) 457-8600

TABLE 1--Continued

Network/Access	Target Audience	Content	Information Contact
SpecialNet GTE Telenet	Educators, resource organizations, advocacy groups, parents, and others interested in special education	A wide range of bulletin boards maintained by various organizations and groups	SpecialNet: National Association of State Directors of Special Education 2021 K Street, NW, Suite 315 Washington, DC 20006 (202) 296-1800
TECHCENTRAL GTE's the Networks the Source (ED-LINE)	Persons interested in instructional technology	News and information about new developments and products, bibliographic citations, software reviews, job bank, conferences	Association for Educational Communications and Technology 1126 16th Street, NW Washington, DC 20036 (202) 466-4780

TABLE 2

STATE ELECTRONIC NETWORKS

Network/Access	Target Audience	Content	Information Contact
LEARN/ALASKA Direct dial	Public schools and colleges in Alaska, state and federal agencies, nonprofit public organizations	Instructional programs and electronic mail	Charles Hickman Operations Manager LEARN/ALASKA NETWORK 2533 Providence Drive Building K-146 Anchorage, AK 99508 (907) 786-1512
VOICE/JTPO Electronic Mailbox (California) Direct dial	Personnel in the 50 service delivery areas in California responsible for JTPA monies	Private network for interagency communication	Nona Verloo Coordinator, VOICE Vocational and Occupational Information Center for Educators 721 Capitol Mall, 4th Floor Sacramento, CA 95814-4785 (916) 445-0404
COLOCONNECT (Colorado) EasyLink	Colorado school districts and boards of cooperative educational services	Electronic mail and bulletin boards	Doug Bassett, Executive Director Communications Center 303 West Colfax Avenue 6th Floor Denver, CO 80204 (303) 573-3208
FIRNCOM (Florida) Direct dial	Florida public educational institutions or agencies	Bulletin boards and document files	Michelle French Department of Education Knott Building Tallahassee, FL 32301 (904) 487-1630
VOSCAN (Illinois) Direct dial	Vocational educators	Bulletin board on vocational subject areas, meetings, and other topics	Jeff Lake Illinois Vocational Curriculum Center Sangamon State University, E-30 Springfield, IL 62708 (217) 786-6375

TABLE 2--Continued

Network/Access	Target Audience	Content	Information Contact
EDNEB (Nebraska) Direct dial	Nebraska educators at all levels	Bulletin boards include legislation, news, human resource bank, meetings, and school food service	Bob Beecham Information Services Nebraska Department of Education P.O. Box 94987 301 Centennial Mall South Lincoln, NE 68509 (402) 471-2367
MVEIS (Michigan) Direct dial	Michigan vocational educators	Bulletin board includes news items, task lists, job bank, meetings, and products	Tim McLaughlin, Specialist Michigan Career and Vocational Education Resource Center Michigan State University 133 East Erickson Hall East Lansing, MI 48824-1034 (517) 353-4397
TECH ED Teachers Network (Texas) The Electric Pages	Texas secondary technical education teachers	A private network for members of the Texas Industrial Arts Association	David Gibbs The Electric Pages P.O. Box 2550 Austin, TX 78768 (512) 472-6432
TCEA Electronic Resource Center (Texas) The Electric Pages	Texas Computer Education Association members; users of Apple Computers	News and information for members; information about Apple products and services	David Gibbs The Electric Pages P.O. Box 2550 Austin, TX 78768 (512) 472-6432
TASBNET (Texas) The Electric Pages	Texas Association of School Boards members	A private network for Texas school districts	David Gibbs The Electric Pages P.O. Box 2550 Austin, TX 78768 (512) 472-6432

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TABLE 2--Continued

Network/Access	Target Audience	Content	Information Contact
JCANET (Texas) The Electric Pages	Members of the Texas Junior College Association	A private network for all 50 of Texas' junior colleges	David Gibbs The Electric Pages P.O. Box 2550 Austin, TX 78768 (512) 472-6432
West Virginia Microcomputer Educational Network Direct dial	West Virginia schools	Curriculum for teachers, a bulletin board for such information as news, statistics, legislation	Brenda Williams Computer Network Coordinator West Virginia Department of Education State Office Building 1900 Washington Street, East Charleston, WV 25305 (304) 348-6318

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network are the most important considerations to persons interested in using networks for dissemination purposes.

Organization	Network
NATIONAL	
Agridata Resources, Inc.	Ag Ed Network
American Association of School Administrators	ED-LINE
American Council on Rural Special Education	SpecialNet
American Educational Research Association	Educational Research Forum
American Speech-Language-Hearing Association	SpecialNet
Association for Educational Communications and Technology	ED-LINE, TECHCENTRAL
Association for the Development of Computer-Based Instructional Systems	ADCIS Forum
Center for Community Research	JTPAnet
Council of Chief State School Officers	ED-LINE
Council for Exceptional Children	SpecialNet
Deaf Communication Institute	DCI Deafnet
Education Turnkey Systems	SpecialNet
EDUCOM	MAILNET
EPIE Institute	EPIE Forum
Greater Detroit Society for the Blind	4-Sights Network
Handicapped Minority Research Institute on Language Proficiency	SpecialNet
International Council for Computers in Education	EDUTEL
LINC Resources, Inc.	SpecialNet
National Association of Private Schools for Exceptional Children	SpecialNet
National Association of School Psychologists	SpecialNet
National Association of State Boards of Education	ED-LINE
National Association of State Directors of Special Education	SpecialNet
National Center for Research in Vocational Education	ADVOCNET
National Clearinghouse for Bilingual Education	BETNET
National Committee, Arts with the Handicapped	SpecialNet
National Deaf-Blind Information and Resource Center	SpecialNet
National Future Farmers of America Foundation	Ag Ed Network
National Institute of Education	ED-LINE
National Rehabilitation Information Center	SpecialNet
National School Public Relations Association	ED-LINE
New Jersey Institute of Technology	Electronic Information Exchange System (EIES)
Office of Vocational and Adult Education, U.S. Department of Education	ADVOCNET
Phi Delta Kappa International	SpecialNet

Figure 1. Organizations and their network affiliation

Organization	Network
STATE	
Alabama Association of School Boards	ED-LINE
California Department of Education	VOICE/JPTO Electronic Mailbox
Colorado Department of Education	Colorado Electronic Mail Network
Florida Information Resource Network	FIRNCOM
Sagamon State University (Illinois)	VOSCAN
Iowa Association of School Boards	ED-LINE
Kansas Association of School Boards	ED-LINE
Michigan State University	MVEIS
Nebraska State Department of Education	EDNEB
Ohio School Boards Association	ED-LINE
Oregon Community College Association	ED-LINE
Oregon School Administrators (Confederation of)	ED-LINE
Oregon School Boards Association	ED-LINE
Pennsylvania State Department of Education	ED-LINE
Texas Association of School Boards	TASBNET
Texas Computer Education Association	TCEA Electronic Resource Center
Texas Junior College Association	JCAnet
Texas Industrial Arts Association	TECH ED Electronic Resource Center
Washington State School Directors' Association	ED-LINE
West Virginia Department of Education	West Virginia Microcomputer Educational Network
Wisconsin State School Directors' Association	ED-LINE
Wyoming Department of Education	ED-LINE
REGIONAL	
Northeast Regional Exchange	ED-LINE
Northwest Regional Educational Laboratory	ED-LINE

Figure 1--Continued

NETWORK PARTICIPATION

This section illustrates how the Resource and Referral Service (RRS) participated in selected electronic networks during the time period December 1, 1984, through September 30, 1985. The results of these efforts are described and summarized and some guidelines are offered for joining a network and for contributing information to networks.

Information Contributed

RRS contributed information to several electronic networks in order to reach a wider audience and to develop expertise in using networks for dissemination.

The kinds of information contributed were the following:

- Announcements of upcoming professional meetings, conferences, and workshops
- Availability of the September 1985 RRS Meetings Exchange, a calendar of over 500 meetings, conferences, and workshops
- A listing of RRS Mini-Lists. These are resource lists in the format of a brochure that identify 8-15 organizations which can provide information, products, or services on topics of current interest. Mini-Lists are available at no charge and can be ordered in quantity for distribution at workshops. Appendix C is a sample Mini-List.
- A series of eight research briefs on Education and Employment. This series highlights findings of studies conducted by the National Center and directs the reader to related information products.
- A listing of free publications from the ERIC Clearinghouse on Adult, Career, and Vocational Education.

Following is a record of the information contributed to each network. Examples of the information posted on the various networks are in appendix D.

ADVOCNET

MEMO Newswire is an interactive publication targeted to the vocational and technical education community. MEMO readers are therefore the appropriate audience for the RRS resources submitted to this electronic publication. RRS collaborated with MEMO Newswire staff in several ways:

- RRS selected and submitted meeting announcements of interest to adult, vocational, and technical educators. These announcements have been a regular feature of MEMO since its first issue and were submitted to the editor each month.
- A listing of recent, available Mini-List titles was published in the July issue.
- The Education and Employment series of eight research briefs was submitted and published, one each month, beginning in April. Two research briefs were also forwarded by the MEMO editor via electronic mail to 60 ADVOCNET members in order to generate their interest in reading MEMO.
- A listing of the recently funded regional educational laboratories and the states served by each was published.

In February 1985, RRS staff used electronic mail to send a message to state vocational education department personnel requesting information on electronic networks operating at state, regional, or local levels.

ED-LINE

RRS meeting announcements comprise the "Calendar of Activities" bulletin board maintained by NIE. This bulletin board is accessible to all ED-LINE subscribers. The meeting announcements covered a wide range of topical areas and all educational levels. ED-LINE users had direct access to information useful in the planning of staff development activities. The announcements were transmitted in monthly segments electronically from RRS to NIE, where the file was downloaded and edited to fit NIE's preferred format. About 75 percent of the meetings were selected by NIE for ED-LINE.

SpecialNet

RRS asked LINC Resources, Inc., to announce the availability of the RRS Mini-List "Resources for Using Microcomputers in Special Education" on SpecialNet. RRS does not have access to SpecialNet and wanted to reach this particular audience to announce the availability of this Mini-List. Also a general announcement about RRS Mini-Lists was posted by LINC on its SpecialNet bulletin board in May.

Education Forum

In May 1985, RRS began working with the systems operator of the Education Forum on CompuServe to select resources that might be most appropriate to forum members. The forum covers a wide range of educational topics. Moreover, it serves as a special interest group through active member participation. RRS has posted the following resources in the Data Library, which is designed for text files and divided into 10 subtopics. All of these resources are in the General Education subtopic, with the exception of the first, which is in Parent Line.

- A listing of resource organizations and professional meetings on the topic of educating the gifted and talented. The systems operator asked RRS to compile and submit this information.
- Meeting announcements for the months of August, September, October, and November of 1985. The announcements were transmitted in monthly segments from RRS and appeared on Education Forum in the same format as they do on the ROME database.
- A listing of recent Mini-List titles available free from RRS.
- A listing of products (Mini-Bibs, ERIC Digests, and information brochures) available free from the ERIC Clearinghouse on Adult, Career, and Vocational Education at the National Center.
- An announcement of the availability of the September issue of the RRS Meetings Exchange.

MVEIS (Michigan)

This state network selects RRS meetings for announcement on their network on an ongoing basis. A complete title listing of 45 Mini-Lists was posted in March 1985. RRS sends print materials (RRS Meetings Exchange and Mini-List title listings) to this network.

File Use

CompuServe has a feature in the Data Library that enables the systems operator and the file developer to monitor file use. When the user requests a display of the directory of files, the number of times the file was accessed (read or downloaded) is also shown. The number of times that each of the RRS files was accessed as of September 30 is shown in table 3.

TABLE 3

RECORD OF ACCESSES TO RRS FILES

Date Posted	File	Accesses
May 24	Resources on gifted and talented	18
June 20	September meetings	14
June 20	RRS Mini-List titles	29
August 27	October meetings	3
August 27	ERIC products	2
September 22	RRS Meetings Exchange	1
September 25	November meetings	-

The file of resources on the gifted and talented was accessed about as frequently as other files on Parent Line during a comparable time period. The

other files also compare favorably with the General Education files online for an equivalent time period.

Results

RRS received four requests for Mini-Lists that can be documented as resulting from the CompuServe listing. A total of 46 Mini-Lists were sent in response to these requests. Three requestors used the printout as an order form and the fourth sent a letter. (At the time these requests were sent, RRS did not have a CompuServe mailbox.) One person later asked for additional Mini-List titles. RRS received two requests for Mini-Lists in response to the general announcements on SpecialNet. One Mini-List request was received in response to the MVEIS listing.

The text of the Research Briefs on MEMO Newswire (ADVOCNET) referenced a free brochure on the topic. Readers are asked to use a Reader Response Service Code in responding to MEMO information. Two requests for the brochures were received and forwarded to RRS. The request for information on electronic networks sent by electronic mail to ADVOCNET members resulted in three referrals.

These results are encouraging. The small number of requests for Mini-Lists and research brochures do not necessarily determine the effectiveness of posting information on electronic networks because these products are also promoted in other ways. RRS receives many requests for Mini-Lists and information about its products and services. These requests are responses to a wide variety of information sources in addition to the electronic announcements: targeted mailings, press releases, conference exhibits, and dissemination efforts by the RDx network. Most of these requests arrive by mail and very few persons mention where they saw the information. As an example, RRS

received several requests for the Mini-List "Using Microcomputers in Special Education" this spring that were probably prompted by the announcement on SpecialNet. However, the requestors did not mention seeing the SpecialNet announcement. In addition, some requests sent to the National Center are for several different types of resources, and these requests are answered by the Program Information Office.

Summary

RRS contributed information to selected networks in various ways. In some instances, print materials were sent to a contact person for announcement on a network. Meeting announcements for ED-LINE were sent electronically in two steps: the file (consisting of several hundred lines of text) was first transferred electronically to the Source and then incorporated into a message sent by electronic mail. When RRS became a CompuServe subscriber, information was sent electronically to a file for preview by the systems operator.

Interest and participation in electronic networks was greatest in Education Forum because RRS had control over how the information was presented (i.e., no further editing was done), when it was posted, and how long it remained accessible to users. In addition, RRS was able to monitor file use and became interested in ways to increase access through selecting key words and writing file descriptions. RRS communicated frequently with the systems operator, who provided ongoing encouragement and assistance in using the system.

RRS found that an investment of time and effort is needed to use electronic networks effectively. One needs to learn how to use a microcomputer and communications package and understand the instructions for using a

particular network. Efficient use of the time spent online can reduce long distance telephone and/or connect charges considerably.

Guidelines

This report presents profiles of various electronic networks in education and describes how the Resource and Referral Service used some of them for information dissemination. The following guidelines are based on the project's experiences and may be helpful to persons wishing to include electronic networks in their dissemination efforts.

- Identify existing networks and the target audience(s) served by each. This report offers detailed information on existing networks in the network profiles and gives the network affiliation of organizations and professional associations.

- Select the networks having the target audience(s) you wish to reach.

- Contact networks of interest and request detailed information on costs, features, and number of users. Networks usually have a brochure or information sheet to send.

- Determine dissemination requirements. What information is to be disseminated? How should it be disseminated--through a newsletter, bulletin board announcement, or as a full text document?

- Considering costs and benefits, decide which networks (if any) to join. The primary reason for joining a network is to communicate with others in the same field to share information of mutual interest. Membership offers many advantages: an electronic mailbox for sending the receiving messages, network participation in conferences, and the possibility of establishing a bulletin board, newsletter, or data file. Network members can disseminate information directly to each other in whatever formats are available and can respond to this information electronically.

- Submit information to other networks. Just as press releases and similar copy are sent for announcement in print materials, information can be sent to systems operators or contact persons for announcement on their networks. It is important to receive credit as the producer of the information. The examples in appendix D show that RRS tried to obtain credit for the project, the National Center, and NIE as the sponsoring agency.

- Keep up-to-date on new developments. The number of networks is growing rapidly and educators should keep up-to-date through the literature and contacts in the education community. The resources listed in appendix E are publications that cover the field of electronic communication.

NETWORK PROFILES

This section contains profiles of national networks and state networks. The national networks are arranged alphabetically by name of the network, whereas the state networks are arranged alphabetically by state.

Several of these networks are described in the education literature. The RELATED READINGS section includes references that focus on a particular network.

NATIONAL NETWORKS

ADCIS FORUM

SPONSOR: CompuServe

ACCESS: CompuServe

TARGET AUDIENCE: Members of the Association for the Development of Computer-Based Instructional Systems; professionals in computer-based education and training

COST: Free to CompuServe subscribers; connect charges

INFORMATION CONTACT:
CompuServe, Inc.
5000 Arlington Centre Boulevard
P.O. Box 20212
Columbus, OH 43220
(614) 457-8600

FEATURES:
Electronic mail
Message board
Bulletins
Conferences
Data Libraries
Member Interest File

DESCRIPTION: This forum serves primarily as a network for ADCIS members to facilitate communications. Members may submit position papers, software descriptions, and information files to a preview database. After review by the Electronic Communication Committee, the files may be accessible to Network members.

START DATE: 1984

ADVOCNET

SPONSOR: Office of Vocational and Adult Education, U.S. Department of Education

ACCESS: ITT Dialcom

TARGET AUDIENCE: Federal, state, and local adult, vocational, and technical education personnel

COST: $10 one-time registration fee; $20 per connect hour; $25 per month minimum (may include multiple mailboxes)

INFORMATION CONTACT:
Wes Budke, Rita Horn, Judy Wagner
The National Center for Research in Vocational Education
The Ohio State University
1960 Kenny Road
Columbus, OH 43210-1090
(614) 486-3655
(800) 848-4815 (within continental United States except Ohio)

FEATURES: Electronic mail
Electronic publications

DESCRIPTION: Over 200 persons are listed in the ADVOCNET directory. Two subnetworks have been formed. One is for area vocational technical institutes in Minnesota; the other subnetwork in California is for secondary school model programs in business or distributive education and the Teacher Education Learning Centers (in colleges and universities that train business education teachers).

Centerline is an electronic information service with information contributed by network members and National Center staff and made available in the following:

MEMO Newswire--a monthly program improvement newsletter
National Center Products Newswire--a listing of current publications available from the National Center
New Venture Newswire--a newsletter focusing on entrepreneurship education

An information brochure is available on request.

START DATE: 1985

AG ED NETWORK

SPONSOR: AgriData Resources, Inc.; National Future Farmers of America Foundation

ACCESS: AgriData Network

TARGET AUDIENCE: High School agriculture teachers

COST: $224 (for schools) per year plus connect time and report fee charges

INFORMATION CONTACT:
Larry Squire
Ag Ed Network
330 East Kilbourn Avenue
Milwaukee, WI 53202
(414) 278-7676
(800) 558-9044; (800) 242-6001 in Wisconsin

FEATURES:
Electronic mail
Bulletin boards
Curriculum
News service

DESCRIPTION: The network offers lessons in such areas as farm business management, marketing farm products, and new technology. News and announcements from Future Farmers of America National Headquarters are available, along with software reviews and electronic ordering from the FFA Catalog. Subscribers have access to U.S. Department of Agriculture reports, agricultural news, agriculture markets and market prices, and other components of the AgriData Network. Illustrated materials about Ag Ed and AgriData Network are available on request.

START DATE: September 1984

BETNET (BILINGUAL EDUCATION TELECOMMUNICATIONS NETWORK)

SPONSOR: National Clearinghouse for Bilingual Education (NCBE)

ACCESS: BRS Information Technologies

TARGET AUDIENCE: Bilingual education organizations, state and local education agencies, colleges and universities, and information/research centers

COST: No additional cost to BRS subscribers; special membership option for nonsubscribers

INFORMATION CONTACT:
Technical Assistance Unit
National Clearinghouse for Bilingual Education
1555 Wilson Boulevard, Suite 605
Arlington, VA 22209
(800) 336-4560 (outside Virginia)
(703) 522-0710 (in Virginia)

FEATURES: Electronic mail
Database

DESCRIPTION: BEBA is NCBE's public database of bilingual education document abstracts. BRS subscribers may join BETNET by having NCBE clear their passwords to access the private files. Information sheets and membership directory are available on request.

START DATE: 1981

DCI DEAFNET

SPONSOR: Deaf Communications Institute

ACCESS: GTE Telemail (General Telephone and Electronics Corporation)

TARGET AUDIENCE: Deaf and hearing-impared persons

COST: $50 yearly membership plus connect charges

INFORMATION CONTACT:
Brenda Monene
Deaf Communications Institute
P.O. Box 247
Fayville, MA 01745
(617) 872-9406 VOICE and TDD

FEATURES: Electronic mail
Bulletin boards

DESCRIPTION: DCI Deafnet is an international network. An information brochure is available on request.

START DATE: 1984

ED-LINE

SPONSOR: National School Public Relations Association (NSPRA)

ACCESS: the Source

TARGET AUDIENCE: All educators

COST: Subscription rate varies; subscribers join ED-LINE through one of the participating national, regional, or state networks; connect charges.

INFORMATION CONTACT:
Laura Bono
National School Public Relations Association
1501 Lee Highway, Suite 201
Arlington, VA 22209
(703) 528-5840

FEATURES: Electronic mail
Bulletin boards

DESCRIPTION: ED-LINE provides educational news, ready-reference information, statistics, supreme court decision summaries, research reviews, federal legislation tracking, classroom ideas, public relationships, and other education information. ED-LINE is an "umbrella" network for many national, regional, and state networks. Some of these networks are restricted to membership in the sponsoring organization or state and require an additional subscription fee. Regional and state networks provide information related to their states or regions. The following bulletin boards are open to ED-LINE subscribers:

Education USA Newsline-------Updated twice each weekday; each edition carries 4-5 news stories

School PR Line----------The NSPRA network

Federal Alert----------Information about federal funding, legislation, and personnel

EDTECH Update----------A newsletter, software reviews, online consultant for using computer technology in school communications

RuraLine----------Information for educators in isolated areas

Legal Briefs----------Summaries of major U.S. Supreme Court decisions about education

Community Education Update---Practical items to help school leaders better understand and implement community education programs

National Networks----------Listing of national networks

Regional Networks----------Listing of regional networks

State Networks----------Listing of state networks

Excellence in Education------Reports on school improvement

Network Directory----------Listing of ED-LINE subscribers

Ed Exchange----------Open bulletin board for subscribers

Useful Facts and Figures from NIE----------Information from results of the National Assessment of Educational Progress

What's New in Research from NIE----------Research of NIE-supported programs

School Talk----------Tips for teachers, principals, and administrators

ED-LINE Bonus----------Monthly feature

National Association Networks

AASA ONLINE*----------American Association of School Administrators

TechNet*----------Association for Educational Communications and Technology

Chief File----------Council of Chief State School Officers

NIE----------National Institute of Education

Regional Networks

NEREX TECH TALK----------Northeast Regional Exchange

NORTHWEST/PACIFIC----------Northwest Regional Educational Laboratory

State Networks

ELECTROLERT*----------Alabama Association of School Boards

IOWA NEWSLINE*----------Iowa Association of School Boards

KASB ELECTRONIC NEWSLINE*----Kansas Association of School Boards

OHIO-LINK*----------Ohio School Boards Association

ORE-NET*----------Oregon's Education Computer Information Network

PENN LINK----------Pennsylvania Today

DIRECT LINE*----------Washington State School Directors' Association

WIS/NET*----------Wisconsin Association of School Boards

WYNET----------Wyoming Department of Education

*Additional subscription fee required

Descriptive information on ED-LINE is available from any of the sponsoring organizations or state agencies listed.

START DATE: January 1981

EDUCATION FORUM

SPONSOR: CompuServe

ACCESS: CompuServe

TARGET AUDIENCE: Teachers, parents, and all persons interested in education

COST: Free to CompuServe subscribers; connect charges

INFORMATION CONTACT:
CompuServe Information Services
5000 Arlington Centre Boulevard, P.O. Box 20212
Columbus, OH 43220
(614) 457-8600

FEATURES:
Electronic mail
Message board
Bulletins
Conferences
Data Libraries
Member Interest File

DESCRIPTION: The purpose of this forum is to share information on a wide range of educational concerns. Data Library subtopics are General Education, Networking, Software, Programming, Special Education, Promising Practices, Parent Line, Media Center, Professional Issues, Creative Arts, and Special Topics. Members may submit files for review by the systems managers who can make the files accessible to all forum members.

START DATE: 1983

EDUCATIONAL RESEARCH FORUM

SPONSOR: CompuServe

ACCESS: CompuServe

TARGET AUDIENCE: Educational researchers

COST: Free to CompuServe subscribers; connect charges

INFORMATION CONTACT:
CompuServe, Inc.
5000 Arlington Centre Boulevard
P.O. Box 20212
Columbus, OH 43220
(614) 457-8600

FEATURES:
Electronic mail
Message board
Bulletins
Conferences
Data Libraries
Member Interest File

DESCRIPTION: The purpose of this forum is to share, compare, and comment on research findings. Data Library subsections correspond to divisions of the American Educational Research Association. Additional subsections cover AERA publications, AERA business, and exchange of information about employment.

START DATE: 1983

EDUTEL

SPONSOR: CompuServe

ACCESS: CompuServe

TARGET AUDIENCE: Computer educators and persons interested in educational technology

COST: Free to CompuServe subscribers; connect charges

INFORMATION CONTACT:
Anita Best
International Council for Computers in Education
University of Oregon
1787 Agate Street
Eugene, OR 97403
(503) 686-4414

FEATURES:
Electronic mail
Message board
Bulletins
Conferences
Data Libraries
Member Interest File

DESCRIPTION: The purpose of EDUTEL is to provide a forum for the exchange of information about educational technology. Data Library subtopics include classroom instruction, software news and reviews, and curriculum; administrative applications of electronic technologies, such as hardware selection; policy issues; educational associations; and concerns of computer coordinators (persons who are responsible for policy, practices, training and development in the use of educational technology).

START DATE: November 1985

ELECTRONIC INFORMATION EXCHANGE SYSTEM (EIES)

SPONSOR: New Jersey Institute of Technology (NJIT)

ACCESS: New Jersey Institute of Technology

TARGET AUDIENCE: Groups interested in the structuring of human communication by computer technology and groups working in key areas of research programs, nonprofit organizations, government agencies, community groups, and corporations

COST: Various membership options are available.

INFORMATION CONTACT:
Computerized Conferencing and Communications Center
323 Martin Luther King Boulevard
Newark, NJ 07102
(201) 596-3437

FEATURES:
Electronic mail
Conferences
Notebooks and personal data files
Word, text, and document processing
Custom communication structures
Data bases

DESCRIPTION: The goals of EIES are to provide reliable services to users, to develop and evaluate new features and implementation methods, and to advance the state-of-the-art and the understanding of user behavior in telecommunications.

START DATE: 1978

EPIE FORUM

SPONSOR: CompuServe

ACCESS: CompuServe

TARGET AUDIENCE: Teachers, parents, and community educators

COST: Free to CompuServe subscribers; connect charges

INFORMATION CONTACT:
EPIE Institute
P.O. Box 839
Water Mill, NY 11976
(516) 283-4922

FEATURES:
Electronic mail
Message board
Bulletins
Conferences
Data Libraries
Member Interest File

DESCRIPTION: EPIE Forum is dedicated to the exchange of information and ideas concerning educational courseware, products, and services. Data Library sub-topic sections contain information on software, hardware, equity in electronic education, home/school issues, and the use of databases in education.

START DATE: 1984

FOREIGN LANGUAGE EDUCATION FORUM

SPONSOR: CompuServe

ACCESS: CompuServe

TARGET AUDIENCE: Educators, students, professionals in the field, and anyone interested in foreign languages, linguistics, or literature

COST: Free to CompuServe subscribers; connect charges

INFORMATION CONTACT:
CompuServe, Inc.
5000 Arlington Centre Boulevard
P.O. Box 20212
Columbus, OH 43220
(614) 457-8600

FEATURES:
Electronic mail
Message board
Bulletins
Conferences
Data Libraries
Member Interest File

DESCRIPTION: The purpose of this forum is to share information of common interest regarding foreign languages. The Data Library subtopics are Conferences-Events, Job Bank, the Registry (a listing of organizations and services relevant to foreign languages), the Profession (issues), Students, Educators, and Miscellaneous.

START DATE: September 1985

4-SIGHTS NETWORK

SPONSOR: Greater Detroit Society for the Blind

ACCESS: Direct dial

TARGET AUDIENCE: Visually impaired persons and those who work with or assist the visually impaired

COST: Long distance charges; $7 per connect hour; 30 day trial period is offered without connect charges

INFORMATION CONTACT:
Benjamin J. Pumo, Associate Director
Greater Detroit Society for the Blind
16625 Grand River
Detroit, MI 48227
(313) 272-3900

FEATURES:
Electronic mail
Conferences
Data Libraries

DESCRIPTION: This network connects the visually impaired and those that assist them. A calendar and a job exchange board are among the features. The network includes information on specialized training facilities, rehabilitation print resources, software reviews, availability of technological aids, public policy and issues, and occupational information for the visually impaired.

START DATE: May 1985

JTPANET

SPONSOR: Center for Community Research

ACCESS: Direct dial

TARGET AUDIENCE: Employment and training agencies; national organizations; state associations; state, county and city governments; private industry councils

COST: $49.95 one-time registration fee; $10 monthly service change; $5 to $8.60 per connect hour

INFORMATION CONTACT:
Jim Masters
Center for Community Research
P.O. Box 5309
Elmwood Station
Berkeley, CA 94705
(800) 843-2687

FEATURES:
Electronic mail
Bulletin boards
Online conferences
Research information banks

DESCRIPTION: The research information banks contain indexed law and regulations for JTPA, guidelines for funding sources, "Federal Register" information, Congressional action, and newsletter subscriptions. An information brochure is available on request.

START DATE: 1985, with public access in March 1986

MAILNET

SPONSOR: EDUCOM

ACCESS: Local computer system

TARGET AUDIENCE: Higher education institutions

COST: One-time implementation fee of $2,100 includes technical assistance; $200 monthly service fee; usage charge based on number and length of messages

INFORMATION CONTACT:
Candice Willut
EDUCOM
P.O. Box 364
Princeton, NJ 08540
(609) 734-1878

FEATURES: Electronic mail

DESCRIPTION: MAILNET is an intercampus electronic mail network designed to provide communication between all types of computer systems at low cost and with little technical effort. Members include institutions in the United States, Canada, and Europe. Users can also send messages to sites connected to other university and research networks through several MAILNET gateways.

START DATE: 1983

SCIENCE/MATH EDUCATION FORUM

SPONSOR: CompuServe

ACCESS: CompuServe

TARGET AUDIENCE: Teachers, students, and all persons with an interest in science or mathematics

COST: Free to CompuServe subscribers; connect charges

INFORMATION CONTACT:
CompuServe, Inc.
5000 Arlington Centre Boulevard
P.O. Box 20212
Columbus, OH 43220
(614) 457-8600

FEATURES:
Electronic mail
Message board
Bulletins
Conferences
Data Libraries
Member Interest File

DESCRIPTION: Data Libraries include a large selection of science and mathematics-related software for a variety of microcomputers; practice problems for students studying for the College Board's Achievement Tests in math, physics, chemistry, and biology; science updates; lab notebook; job bank; and the online teacher.

START DATE: 1984

SPECIALNET

SPONSOR: National Association of State Directors of Special Education

ACCESS: GTE Telenet

TARGET AUDIENCE: Educators, resource organizations, advocacy groups, parents, and others interested in special education

COST: $200 per year plus connect charges

INFORMATION CONTACT:
SpecialNet: National Association of State Directors of Special Education
2021 K Street, NW, Suite 315
Washington, DC 20006
(202) 296-1800

FEATURES:
Electronic mail
Bulletin boards
Data collection and information management

DESCRIPTION: SpecialNet offers a wide range of bulletin boards maintained by various organizations and groups. Following is a listing of the national bulletin boards:

ED.DAILY----------Education Daily (available to subscribers only)

FEDERAL----------Congressional and Washington activities

LITIGATION----------Court cases and hearing decisions

RFP----------Grants and contracts of federal agencies

CONSULTANT----------Listing of consultants in various areas

EMPLOYMENT----------Employment opportunities

VOCED----------Vocational education, managed by Missouri Link, a project at the University of Missouri

CONFERENCE----------Education-related conferences

COMPUTER----------Computer applications in education managed by Education Turnkey Systems, Falls Church, VA

TELEVISION----------Uses of public, cable, and satellite television for educational purposes

PRACTICES----------Descriptions of promising practices for adoption by others

OPINIONS----------Letters to the editor

EXCHANGE----------General information exchange

SLATE----------Designed to assist state-level policymakers in their planning for the use of technology

POLICY----------Designed to assist SEAs and LEAs develop or revise policies

EARLY CHILDHOOD----------Services for handicapped children ages 0-8

CSPD----------Comprehensive System of Personnel Development; preparation of personnel for special education

MULTIHANDICAPPED----------Administrative and instructional services for the severely and multiple handicapped

VISION----------Information, services, and materials for the visually impaired

DEAFNESS----------All areas related to the hearing impaired

RURAL----------Maintained by the American Council on Rural Special Education as a resource for sharing information

CEC.NEWS----------Activities of the Council for Exceptional Children

GIFTED----------Programs and services for the gifted and talented

ASHA.UPDATE----------Managed by the American Speech-Language-Hearing Association

ASSESSMENT----------Communications with test developers and publishers

ALLIED HEALTH----------Maintained by the American Society of Allied Health Professions

PDK.CEDR----------Provides communications between Phi Delta Kappa International Headquarters and chapter officers

NARIC.REPORT----------Activities of the National Rehabilitation Information Center

TRANSITION---------- -Information on "transitioning" special needs children and young adults

NCAH.NEWS----------National Committee, Arts with the Handicapped administers this board

LINC.UP----------Operated by LINC Resources, Inc., on new developments and trends in disseminating new products

NASP----------Information on the National Association of School Psychologists

PROGRAM.EVAL----------On program evaluation; managed by the Mid-South Regional Resource Center at the University of Kentucky

SOFTWARE----------Information and evaluations of educational software

TECH.LINE----------Information on technology in special education

NAPSEC.ISSUES----------Administered by the National Association of Private Schools for Exceptional Children

C.SET----------On educational services to handicapped students in correctional settings

SPEC.PE----------Physical education for handicapped students, managed by PROJECT CSPDPE at the University of Georgia

BILINGUAL----------Managed by the Handicapped Minority Research Institute on Language Proficiency at the University of Texas at Austin

State bulletin boards are available for the following states: Alaska, California, Colorado, Florida, Illinois, Indiana, Kansas, Michigan, Missouri, Nevada, Pennsylvania, South Carolina, Washington, West Virginia, and Wyoming.

An information booklet, SpecialNet Questions and Answers, is available on request from the National Association of State Directors of Special Education.

TECHCENTRAL

SPONSOR: Association for Educational Communications and Technology

ACCESS: GTE's the Networks
the Source (ED-LINE) as TechNet

TARGET AUDIENCE: Association members; persons interested in instructional technology

COST: $65 for yearly subscription to TECHCENTRAL on the Networks; connect charges

$275 for members/$325 for nonmembers for TechNet on the Source; connect charges

INFORMATION CONTACT: Association for Educational Communications and Technology
1126 16th Street, NW
Washington, DC 20036
(202) 466-4780

FEATURES: Electronic mail
Bulletin boards
Practitioner exchange
User surveys

DESCRIPTION: TECHCENTRAL covers upcoming conferences dealing with new technologies in education, timely news and information about developments in instructional technology, new product information, evaluations and reviews of software and educational programming, and job banks. The bulletin boards offer these resources: bibliographic citations drawn from the ERIC-IR database; funding resources, pending contracts, grants, and deadlines; and searches from the National Information Center for Educational Media.

STATE NETWORKS

LEARN/ALASKA NETWORK

SPONSOR: Alaska Instructional Communications Consortium

ACCESS: Direct dial through Alascom, Alaska's longline carrier

TARGET AUDIENCE: Public schools and colleges in Alaska, state agencies, federal agencies, and nonprofit public organizations

COST: Long distance charges

INFORMATION CONTACT:
Charles Hickman, Operations Manager
LEARN/ALASKA NETWORK
2533 Providence Drive
Building K-146
Anchorage, AK 99508
(907) 786-1512

FEATURES:
Electronic mail
Computer conferencing
Instructional television network
Audio conferencing

DESCRIPTION: The main purpose of this statewide telecommunications system is to provide instructional programs to students at all levels. Two computer networks are used for electronic mail service: one linking universities and the other connecting all school districts. The network can be linked to other networks in the United States, Canada, Europe, Australia, and Greenland.

START DATE: 1981

VOICE/JTPO ELECTRONIC MAILBOX

SPONSOR: VOICE and the Job Training Partnership Office of the Employment Development Department

ACCESS: Direct dial

TARGET AUDIENCE: Personnel in the 50 different service delivery areas in California. These agencies are responsible for the JTPA monies expended by their Private Industry Councils.

COST: Connect charges; electronic mailbox is cost free

INFORMATION CONTACT:
Nona Verloo
Coordinator, VOICE
Vocational and Occupational Information Center for Educators
721 Capitol Mall, 4th Floor
Sacramento, CA 95814-4785
(916) 445-0404

FEATURES: Electronic mail
Bulletin board

DESCRIPTION: This is a private network established as an interagency project for dissemination of information to selected, identified agencies.

START DATE: Fall 1985

COLOCONNECT

SPONSOR: Colorado Department of Education

ACCESS: EasyLink (Western Union)

TARGET AUDIENCE: School districts, Boards of Cooperative Educational Services

COST: $25 per year includes one mailbox for main locations, plus usage charges

INFORMATION CONTACT:
Doug Bassett, Executive Director
Communications Center
303 West Colfax Avenue
6th Floor
Denver, CO 80204
(303) 573-3208

FEATURES: Electronic mail
Bulletin board

DESCRIPTION: This electronic mail system was established to allow instantaneous communication among the participating members. The goal is 100 percent participation by school districts and boards of cooperative services and to include many other educational institutions within the state.

START DATE: March 1985

FIRNCOM

SPONSOR: Florida Information Resource Network

ACCESS: Direct dial

TARGET AUDIENCE: Public educational institutions or agencies in Florida and not-for-profit educational institutions or organizations

COST: Costs for long distance charges, if no local Tymnet number available, and for sending messages

INFORMATION CONTACT:
Michelle French
Department of Education
Knott Building
Tallahassee, FL 32301
(904) 487-1630

FEATURES:
Electronic mail
Bulletin board
Online files

DESCRIPTION: The bulletin board contains items of general interest as well as items of special interest to specific categories of educators. Online files contain documents such as regulations, directories, or catalogues. Out-of-state access is also available through Tymnet.

START DATE: January 1983

VOSCAN

SPONSOR: Illinois State Board of Education, Department of Adult, Vocational, and Technical Education; U.S. Department of Education

ACCESS: Open access by dialing (217) 786-6737

TARGET AUDIENCE: Vocational educators

COST: Telephone charges

INFORMATION CONTACT:
Jeff Lake
Illinois Vocational Curriculum Center
Sangamon State University, F-30
Springfield, IL 62708
(217) 786-6375

FEATURES:
Electronic mail
Bulletin board
Data Libraries

DESCRIPTION: The bulletin board operates 24 hours a day, 7 days a week. The main menu includes major vocational education subject areas, meetings, and other topics. An information sheet with instructions on how to use the system is available on request.

START DATE: October 1983

EDNEB

SPONSOR: Nebraska Department of Education

ACCESS: State of Nebraska mainframe

TARGET AUDIENCE: Nebraska educators at all levels

COST: $150 start-up fee; connect charges; $10 annual fee after the first year

INFORMATION CONTACT:
Bob Beecham
Information Services
Nebraska Department of Education
P.O. Box 94987
301 Centennial Mall South
Lincoln, NE 68509
(402) 471-2367

FEATURES:
Electronic mail
Bulletin boards
Data Libraries
Access to AGNET programs (Nationwide Agricultural Network)

DESCRIPTION: Contributors to the bulletin boards include U.S. Department of Education staff, state education organizations, and the University of Nebraska. Bulletin boards include legislative update, news service, school food services and child nutrition programs, human resource bank, professional meetings, a forum for school districts, and a conference feature. The network also provides access to Nebraska statutes, a state publications checklist, a film locating service, and the Vocational Resource Library.

(MVEIS) Michigan Vocational Education Information System

SPONSOR: State Board of Department of Education, Vocational-Technical Education Service

ACCESS: Michigan State University mainframe

TARGET AUDIENCE: Michigan vocational educators

COST: Telephone charges

INFORMATION CONTACT:
Tim McLaughlin
Michigan Career and Vocational Education Resource Center
Michigan State University
133 East Erickson Hall
East Lansing, MI 48824
(517) 353-4397

FEATURES: Electronic Newsletter

DESCRIPTION: The system contains information on workshops and conferences, news items, legislative information in vocational education, new products, and software reviews. Users are able to order tasklists and search the Michigan Career and Vocational Education Resource Center's card catalog.

START DATE: Fall 1982

TECH ED TEACHERS NETWORK

SPONSOR: Texas Industrial Arts Association

ACCESS: The Electric Pages

TARGET AUDIENCE: Texas secondary technical education teachers

COST: $15 one-time charge, plus $15 per connect hour using 1-800 access

INFORMATION CONTACT:
David Gibbs
The Electric Pages
P.O. Box 2550
Austin, TX 78768
(512) 472-6432

FEATURES: Electronic mail
Conference Center

DESCRIPTION: This is a private network for members of the Texas Industrial Arts Association.

START DATE: September 1985

TCEA ELECTRONIC RESOURCE CENTER

SPONSOR: Apple Computer, Inc.

ACCESS: The Electric Pages

TARGET AUDIENCE: Members of the Texas Computer Education Association (TCEA); users of Apple computers

COST: Telephone charges

INFORMATION CONTACT:
David Gibbs
The Electric Pages
P.O. Box 2550
Austin, TX 78768
(512) 472-6432

FEATURES:
Electronic mail
Bulletin boards
Newsletter

DESCRIPTION: This network has two sections. One is news and information for TCEA members. The second is maintained by Apple Computer and includes news and information about Apple products, activities, and services. Messages can also be sent to Apple Computer, Inc.

START DATE: February 1984

TASBNET

SPONSOR: Texas Association of School Boards

ACCESS: The Electric Pages

TARGET AUDIENCE: Members of the Texas Association of School Boards

COST: No start-up fee; $15 per connect hour via 1-800 access.

INFORMATION CONTACT:
David Gibbs
The Electric Pages
P.O. Box 2550
Austin, TX 78768
(512) 472-6432

FEATURES:
Electronic mail
Bulletin boards
Conference Center

DESCRIPTION: This is a private network for members of the Texas Association of School Boards. The goal is to have all of Texas's 1,100 school districts on the network. TASB uses the network as a communication link for its members. Information provided includes: legislative tracking, state board of education reports, calendars, and educational news.

START DATE: March 1983

JCANET

SPONSOR: Texas Junior College Association

ACCESS: The Electric Pages

TARGET AUDIENCE: Members of the Texas Junior College Association

COST: No start-up fee; $15 per connect hour via 1-800 access

INFORMATION CONTACT:
David Gibbs
The Electric Pages
P.O. Box 2550
Austin, Texas 78768
(512) 472-6432

FEATURES: Electric mail
Conference Center

DESCRIPTION: This is a private network for members of the Texas Junior College Association. All 50 Texas junior colleges are on the network. The network serves as a communication link. Information provided includes: legislative tracking, state board of education reports, calendars, and education news.

START DATE: Fall 1983

WEST VIRGINIA MICROCOMPUTER EDUCATIONAL NETWORK

SPONSOR: West Virginia Department of Education

ACCESS: Direct dial

TARGET AUDIENCE: West Virginia schools

COST: Free

INFORMATION CONTACT:
Brenda Williams, Computer Network Coordinator
West Virginia Department of Education
State Office Building
1900 Washington Street, East
Charleston, WV 25305
(304) 348-6318

FEATURES: Electronic mail
Bulletin board

DESCRIPTION: The central bulletin board includes such items as a calendar of events, announcements, job openings, new legislation, education and career information, education statistics, and software. Ninety percent of the information contained in the network library relates to curriculum materials for access by teachers. The bulletin board operates 24 hours a day. Similar local bulletin boards are in place in participating schools. The goal is to install a local area network in every school.

START DATE: July 1984

APPENDICES

ERIC

ERIC Clearinghouse
on Information Resources

Syracuse University • School of Education
Syracuse, New York 13210
(315) 423-3640

ERIC DIGEST

ELECTRONIC NETWORKS

What is an electronic network?

An electronic network is a system that facilitates the delivery of information (communication) using a computer and a telephone. The three most common forms of networking used by educators are electronic mail, electronic bulletin boards, and computer conferencing. Electronic mail allows the user to transmit and receive messages in a fast and efficient manner. An electronic bulletin board is an array of information, usually dealing with a particular subject, that can be accessed via the computer. Educators can meet via the computer to discuss topics of concern or to react to pertinent educational issues using computer conferencing.

How does it work?

Three devices are necessary to access an electronic network: (1) computer (terminal, microcomputer, or communications word processor); (2) telephone; and (3) modem (modulator-demodulator). The modem is the communications device between the computer and the telephone. It converts computer information into telephone signals and vice-versa. The computer is then tied into an information utility (known as the "host" computer) which stores the information on powerful mainframe or minicomputer systems. The SOURCE and CompuServe are two examples of utilities commonly used by educators to store information and facilitate electronic networking. Each user is given a unique number account and password that permits access to the network.

What are some of the features of electronic networking?

Most electronic networks include a variety of features that can help users to retrieve information and to share experiences, concerns, and ideas on topics pertinent to education, business, news, and entertainment. A "menu" guides the user to the various components of the network.

Electronic bulletin boards permit users to review statistical data, literature on pertinent topics, upcoming conferences, meetings, seminars, job opportunities, school practices, national resource experts, etc. This information can usually be accessed by typing in a one-word title or single number associated with the topic. The computer screen will then reveal the contents of a specific bulletin board.

The interactive features of the electronic network have been found to be most successful by network users. These include electronic mail and computer conferencing. Electronic mail permits users to send messages to others on the system. The length of the message can vary from one or two words to several pages; and messages can be sent to one individual, a group of individuals, or all network users. The messages are typed using the computer keyboard while online (some computers allow the preparation and storage of materials while off-line to economize on connect time), and then stored in the recipient's "mailbox" until they are requested. Of course, the recipient must also have an account on the network. After reading the message, the recipient may file it, respond to it, delete it, or ignore it.

Computer conferencing permits each participant in a meeting to attend at a time convenient for that individual. The meeting agenda, report, or items of concern are typed and stored in the computer. As participants tie into the network and subsequently the conference, using commands similar to those for accessing a bulletin board, the comments of preceding participants are read and each succeeding participant may respond to the issues at hand or the comments of preceding attendees. These conferences can be held over a period of several hours or several days depending upon the purpose and need of the "conference sponsor."

Electronic networks are easy to use. A user's manual is often provided for the new account holder; however, directions to follow are usually presented while online and "help" files can be "called up" at any time while using the network.

Convenience is an important advantage. Messages can be transmitted at any time. When an inquiry is made via electronic mail, the user has time to think about a response whereas a telephone call may not offer this flexibility.

What is the cost of joining an electronic network?

The costs vary from one source to another. The costs of the networks presented mentioned below range from no charge to $1,175 annually. In most instances the initial fee is minimal, given the resources that are available as a result of joining the network. Connect time or online charges (the hourly cost of using the host computer while processing information) are not usually included in the initial fees. Online charges can range from $5 per hour to $25 or more depending on the type of information requested. In some instances, long distance charges may be accrued if the host computer does not have a local telephone number in a particular city. Using cost saving long distance services such as Telenet or Tymnet can reduce direct dialing charges when local numbers are not provided. Some utilities also offer WATS numbers.

What are the advantages for educators and decision makers?

Often the information we need as educators is not found in periodicals or texts, but in the minds of other educators who have experienced our frustrations or can explain a new development. Electronic networking provides immediate access to those individuals, many of whom have access to these services. Local networking has been used to provide training for teachers in local school districts without staff leaving their own environments. Information, particularly regarding the use of technology, changes rapidly. Electronic mail systems provide current information in a timely and efficient manner.

Most networks tend to be content-specific or targeted at a particular audience. ChiefFile, for example, is the network developed and used by the Chief State School Officers in the 50 states and U. S. territories, who need immediate access to national news and legislative issues. SpecialNet is targeted at special educators and others interested and working in the area of special education. DeafNet-DCI is devoted to the hearing impaired population. TechNet focuses on the applications of technology and communications in education and is intended for use by educators and others interested in the use of the information technologies for education and training. Many networks have also been established by state departments of education and school board associations to meet the needs of educators in a particular state, e.g., Penn-Link in Pennsylvania, Electro-lert in Alabama, and WIS/NET in Wisconsin. Several of these educational networks are made possible by Edline, formerly EdNet, the electronic news and information network established by the National School Public Relations Association, which serves as the umbrella for PennLink, TecnNet, ChiefFile and a host of others.

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This digest was prepared by Cheryl Petty Garnette, Association for Educational Communications and Technology (AECT), Washington, D.C. Ms. Garnette is manager of AECT's electronic information network, TechNet. December 1983.

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ERIC
ERIC Clearinghouse
on Information Resources

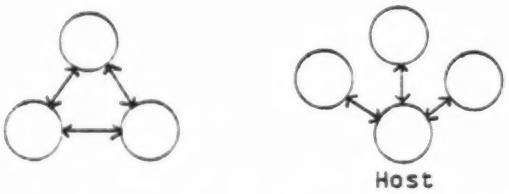
Syracuse University • School of Education
Syracuse, New York 13210
(315) 423-3640

ERIC DIGEST

NETWORKING AND MICROCOMPUTERS

What is Networking?

Networking is a very broad and confusing term. Whether one is talking about computers or not, networking means establishing a link in order to exchange or share resources, ideas, information or support. With the advent of the microcomputer, the possibilities for networking have been greatly extended. Using a microcomputer network you can sell a car, make a date, download software, announce an event, send a message and much more.



Networking implies that one entity is communicating with another. Computerized networks require a somewhat different approach. Instead of direct two-way communication (i.e., conversation between two or more people), networkers communicate with a centralized unit known as the host computer where messages and information are stored and retrieved. The host not only stores the information and messages but it also manages access to them.

Networks can fall into three broad categories—local area networks (LAN), microcomputer based messaging systems (this includes computer bulletin board systems (CBBS)), or commercial information systems. Many of the same types of activities take place within the three categories. The major differences are the types of information available and the ways in which access to the information is provided. This digest is primarily concerned with microcomputer based messaging systems but it is important to distinguish this type of network from the other two.

Local Area Networks

The best example of a local area network is the integrated office. The type of information in this kind of network is specific to the needs and requirements of the organization. Connected by cables and sometimes phone lines, the LAN makes it possible to maximize the utilization of expensive computer hardware and peripherals (disk drives, tape drives and printers). A great deal of the literature concerning networking refers to the LAN (i.e., how to make different pieces of equipment "talk" to each other within the office environment).

Commercial Information Systems

The commercial information utilities are also networks. They include database search services (Dialog, BRS, SDC); library service networks, (OCLC-Online Computer Library Center, etc.); information utilities (the Source, Compuserve), and news networks (New York Times, etc.).

They provide a very broad range of information for a diverse audience. For most users, these services are not within local dialing radius. Low cost, long distance access is provided through one of the packet switching networks (sometimes called value added networks) such as Tymnet, Telenet, or Uninet. In order to access one of these systems, it is necessary to set up an account (subscription) so that users can be charged for the amount of time they utilize the service.

Microcomputer Based Systems

A microcomputer based networking system works much like the commercial utilities except that a microcomputer is the host. Most are privately operated and usually provide general information about a specific subject, e.g., education, Apple users, microcomputer club news. Access is through regular telephone lines. Those networks which are not local entail a long distance phone call. For this reason many operate at night when phone rates are lower. Although most microcomputer networks are free except for the phone call, some require the user to become a member and use an identification number and password in order to get into the system.

User Requirements

In order to access a microcomputer network, you must have a terminal that allows you to set the parity and the data length (more about this later). Many people use their microcomputers as terminals, which allows them to store the information they are retrieving to disk or have it printed out. For more information on this see the ERIC Digest "Accessing ERIC with Your Microcomputer." As long as the micro is capable of communicating (i.e., acting like a terminal), it can interact with a network set up on any kind of microcomputer.

Getting Started

The first step is to dial the network's phone number and establish communication with the host computer (see list at the end of the article). There is usually a WELCOME message followed by other introductory information such as a description of the type of in-

formation available, what number caller you are, and any special announcements (e.g., changes in the system). The main purpose of networks is to try and reach as many people as possible. Consequently, they are usually very "friendly" and provide HELP instructions (a review and explanation of the commands needed to use the network) that can be accessed while communicating with the network. Users will be asked if their computer can handle upper/lower case and where they are from (for statistical purposes), followed by a review of the necessary commands to utilize the system.

Services Available

More often than not, microcomputer based messaging systems are referred to as computer bulletin board systems or CBBSs. However, many messaging systems are capable of providing more than bulletin board services.

A *computerized bulletin board* is very similar to a bulletin board in a public place where everyone can pin up a notice they want others to see. It can be an announcement for a meeting, item for sale, service available, etc. A computerized bulletin board is basically the same thing. The host microcomputer is essentially the physical bulletin board where information that anyone may want to distribute is stored. Most CBBSs have a scan option that allows users to see a brief description of the messages. After scanning the various messages, they can then go back and choose to see the entire form of a particular message or leave a message on the CBBS they want others to see.

Downloading Software—Some bulletin boards also allow public domain (free to the public) software to be downloaded. By giving a few commands, users can have a program sent (downloaded) to their micros and stored to disk for later use. When downloading software, the computer that is receiving the software must be the same as the computer that is sending the software.

Electronic mail is similar to a bulletin board except that messages are left for a specific individual. In this circumstance, all users have identification numbers. Each message is addressed via the identification number to the appropriate user or users. A microcomputer based messaging system may also include electronic mail service (which requires that all users have an ID and is a more elaborate system). As users sign on and give their ID numbers, they are informed as to whether they have any mail, and, if so, how much.

Trouble Shooting

Each computer system has a different way of sending and receiving data. This is called the communications protocol. Some of the following problems can occur if the protocols are different.

Gibberish—You phone the network and make the communication link but what you see on the screen doesn't make sense. Most likely you have the wrong data length and parity setting. (See "Accessing ERIC with Your Microcomputer" for more details). Try 7 data bits, 1 start/stop bit and even parity for starters. If that doesn't work, try the following combinations: 7,1,odd; 7,2,even; 7,2,odd; 8,2,none; 8,1,none; 8,1,even; or 8,1,odd.

Printer doesn't advance—one line keeps typing over another—Some older terminals don't automatically advance the paper one line after each carriage return (after each line has been written). For this reason, it is necessary to tell the terminal to do so by answering YES to LINE FEED? (Y/N).

Losing Characters—Some printers don't have enough time to get back to the left side of the page before they are ordered to print another line. As a result, you lose characters. When you first sign on to a bulletin board, many of them will ask you how many NULLS you want. NULLS are time wasters; they simply give the printer head enough time after each line to return to the left side of the page. Your printer manual should provide you with more information concerning this.

Resources

Now you have enough information to get started. There are all kinds of microcomputer messaging systems available to learn from and play with but many of them come and go. Here are two newsletters that provide networking news and list the available networks.

Other Networks
P.O. Box 14066
Philadelphia, PA 19123

$15.00/year
quarterly

Plumb
Riverside Data Inc.
P.O. Box 300
Harrods Creek, KY 40027
502-228-3820

$26.50/year
8 issues

Telephone Software Connection is a company that sells software via the modem. To acquaint you with the system, they provide several programs that can be downloaded at no charge. Have an initialized disk ready. Call (213) 516-9432. Novation, Inc., a producer of modems, provides a list of CBBSs on their network. Their number is (213) 881-6880. For more details and additional listings see *The Computer Phone Book* by Mike Cane (New York: New American Library, 1983).

Dial up and see what's out there.

This digest was prepared by Jane Klausmeier, Operations Manager, ERIC Clearinghouse on Information Resources, Syracuse University. November 1984.

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Appendix B: Addresses of Organizations

Agridata Resources, Inc.
330 East Kilbourn Avenue
Milwaukee, WI 53202
(414) 278-7676
(800) 558-9044
(800) 242-6001 (in Wisconsin)

American Association of School Administrators
1801 North Moore Street
Arlington, VA 22209
(703) 528-0700

American Council on Rural Special Education
Box 2470, University Station
Murray State University
Murray, KY 42071
(502) 762-2056

American Educational Research Association
1230 17th Street, NW
Washington, DC 20036
(202) 223-9485

American Speech - Language - Hearing Association
10801 Rockville Pike
Rockville, MD 20852
(301) 897-5700

Apple Computer, Inc.
10260 Bandley Drive
Cupertino, CA 95014
(408) 996-1010

Association for Educational Communications and Technology
1126 16th Street, NW
Washington, DC 20036
(202) 466-4780

Association for Development of Computer-Based Instructional Systems
Miller Hall 409
Western Washington University
Bellingham, WA 98225
(206) 676-2860

BRS Information Technologies
1200 Route 7
Latham, NY 12110
(800) 833-4707 in U.S.
(800) 553-5566 in New York State
(518) 783-7251 collect

Center for Community Research
P.O. Box 5309
Elmwood Station
Berkeley, CA 94705
(800) 843-2687

CompuServe, Inc.
5000 Arlington Centre Boulevard
P.O. Box 20212
Columbus, OH 43220
(614) 457-8600

Council of Chief State School Officers
400 North Capitol Street, NW
Suite 379
Washington, DC 20001
(202) 393-8161

The Council for Exceptional Children
1920 Association Drive
Reston, VA 22091
(703) 620-3660

Deaf Communications Institute
P.O. Box 247
Fayville, MA 01745
(617) 872-9406

EasyLink Service
1 Lake Street
Upper Saddle River, NJ 07458

Education Turnkey Systems
256 North Washington Street
Falls Church, VA 22046
(703) 536-2310

EDUCOM
P.O. Box 364
Princeton, NJ 08540
(609) 734-1878

The Electric Pages
P.O. Box 2550
Austin, TX 78768
(512) 472-6432

EPIE Institute
P.O. Box 839
Water Mill, NY 11976
(516) 283-4922

GTE Telemail
General Telephone and Electronics Corporation
8229 Boone Boulevard
Vienna, VA 22180
(703) 442-1900

Greater Detroit Society for the Blind
16625 Grand River
Detroit, MI 48227
(313) 272-3900

Handicapped Minority Research Institute on Language Proficiency
Department of Special Educaiton
EDB-306
University of Texas
Austin, TX 78712
(512) 471-4161

International Council for Computers in Education
University of Oregon
1787 Agate Street
Eugene, OR 97403
(503) 686-4414

LINC Resources, Inc.
3857 North High Street
Columbus, OH 43214
(614) 263-5462

National Association of Private Schools for Exceptional Children
P.O. Box 34293
West Bethesda, MD 20817
(301) 299-3004

National Association of School Psychologists
655 15th Street, NW
Washington, DC 20005
(202) 347-3965

National Association of State Boards of Education
701 North Fairfax Street, Suite 340
Alexandria, VA 22314
(703) 684-4000

National Association of State Directors of Special Education
2021 K Street, NW
Suite 315
Washington, DC 20006
(202) 296-1800

National Association of State Directors of Vocational Education
200 Lamp Post Lane
Camp Hill, PA 17011
(717) 763-1120

National Center for Research in Vocational Education
The Ohio State University
1960 Kenny Road
Columbus, OH 43210
(800) 848-4815
(614) 486-3655

National Clearinghouse for Bilingual Education
1555 Wilson Boulevard, Suite 605
Rosslyn, VA 22209
(800) 336-4560

National Committee, Arts for the Handicapped
Education Office
John F. Kennedy Center for the Performing Arts
Washington, DC 20566
(202) 332-6960

National Future Farmers of America Foundation
National FFA Center
Box 15160
Alexandria, VA 22309
(703) 360-3600

National Information Center for Educational Media
P.O. Box 40130
Albuquerque, NM 87196
(505) 265-3591

National Institute of Education
1200 19th Street, NW
Washington, DC 20208-1101
(202) 254-5500

National Rehabilitation Information Center
The Catholic University of America
4407 Eighth Street, NE
Washington, DC 20017
(202) 635-5826

National School Public Relations Association
1501 Lee Highway, Suite 201
Arlington, VA 22209
(703) 528-5840

New Jersey Institute of Technology
Computerized Conferencing and Communications Center
323 Martin Luther King Boulevard
Newark, NJ 07102
(201) 596-3437

Northeast Regional Exchange
34 Littleton Road, Route 110
Chelmsford, MA 01824
(617) 256-3987

Northwest Regional Educational Laboratory
300 S.W. Sixth Avenue
Portland, OR 97204
(503) 248-6800

Phi Delta Kappa Association
Eighth Street and Union Avenue
Bloomington, IN 47401
(812) 339-1156

The Source
1616 Anderson Road
McLean, VA 22102
(800) 336-3366
(703) 821-6666

ITT Dialcom, Inc.
1109 Spring Street
Silver Spring, MD 20910
(301) 588-1572

CORPORATION FOR PUBLIC BROADCASTING (CPB)
1111 16th Street, NW
Washington, D.C. 20036
Telephone: (202) 293-6160
Contact: Office of Corporate Communications

CPB provides support and national coherence to public broadcasting in America. That part of the funding of public broadcasting supplied by the federal government is channeled through CPB. A private, nonprofit corporation, CPB was authorized by the Public Broadcasting Act of 1967 to develop noncommercial radio and television services for the American people. Within this mandate, CPB currently focuses on four specific tasks: national program funding, support to television and radio licensees, research and planning, and diversity in all of the system's work.

CPB continuously evaluates the technological, marketplace, economic, demographic, social, regulatory and policy-making environments for public broadcasting. Additionally, CPB has done considerable research into the uses of instructional TV. Upon request, an annotated bibliography of publications in print is available that lists documents such as *Learning from Television: What the Research Says, Writing for Instructional Television, Telecommunications and the Schools, Formula for Change: A Report of the Task Force on Minorities in Public Broadcasting, In Search of Diversity: Symposium on Minority Audience and Programming Research,* and *VIDEODISC: An Instructional Tool for the Hearing Impaired.* The cost of these publications ranges from $2 to $6.

KIDSNET: A CLEARINGHOUSE FOR CHILDREN'S RADIO AND TELEVISION
1201 16th Street, NW
Washington, D.C. 20036
Telephone: (202) 466-4252
Contact: Karen Klass Jaffe, Executive Director

KIDSNET, funded from grants through the National Foundation for the Improvement of Education (a nonprofit organization of the National Education Association), is an interactive computerized database on children's broadcast media. This clearinghouse will be operational by late 1985. (Presently, the clearinghouse can respond informally to queries.) Both individual and institutional users will be able to access KIDSNET when formally underway through an 800 number and direct computer interconnections.

SOUTHWEST EDUCATIONAL DEVELOPMENT LABORATORY (SEDL)
211 East Seventh Street
Austin, Texas 78701
Telephone: (512) 476-6861
Contact: Publications Office

For more than two years, SEDL has distributed products nationally that were developed during the Critical TV Viewing Skills Project, funded by the U.S. Office of Education. These packages are for use by parents, teachers, and children.

Each package contains a *Training Manual* for teaching TV viewing skills; *Teacher Cue Cards,* which give ideas for activities utilizing TV viewing to enhance other subject areas; five family-oriented booklets called *Television: A Family Focus,* which treat different aspects of television viewing; and an assortment of booklets for children to read by themselves or with adults.

Each package sells for $15. All orders under $25 must be prepaid. Purchase orders will not be accepted. Contact the SEDL Publications Office directly to purchase these materials. The final report, *Development of Critical Television Viewing Skills in Elementary School Students,* is available in the ERIC system as ED 215 671. Contact the ERIC Clearinghouse on Information Resources at (315) 423-3640 for ordering information.

Other resources on this topic may be obtained by contacting RRS at the National Center for Research in Vocational Education. Telephone: (800) 848-4815, in Ohio (614) 486-3655. Cable: CTVOCEDOSU/Columbus, Ohio. Telex: 8104821894.

The Resource & Referral Service is part of the **Research & Development Exchange** which is sponsored by the **National Institute of Education,** Washington, D.C. 20208

THE NATIONAL CENTER FOR RESEARCH IN VOCATIONAL EDUCATION
THE OHIO STATE UNIVERSITY
1960 KENNY ROAD · COLUMBUS, OHIO 43210

10/15/84 JS 44.1

RRS MINI-LIST

RESOURCES FOR USING TELEVISION IN EDUCATION (K-12)

ASSOCIATION FOR CHILDHOOD EDUCATION INTERNATIONAL (ACEI)
11141 Georgia Avenue, Suite 200
Wheaton, Maryland 20902
Telephone: (301) 942-2443
Contact: Lucy Prete Martin, Director of Publications/Editor

Established in 1892, ACEI actively works to promote the quality and availability of educational programs and practices for children worldwide. Members in over 200 ACEI state, provincial, and local branches, gain access to professional journals, newsletters, books, conferences, and seminars.

Childhood Education, Published bimonthly from September through June, is an award-winning refereed journal that has included articles such as teaching children TV literacy and the effects of TV commercials on children. Subscriptions are available only as part of membership. All membership dues except for the associate membership include $9 for the journal.

Two books published by ACEI cover educational uses of TV with children. *Children Are Centers for Understanding Media* ($3.95, ACEI members; $4.75, nonmembers) includes practical ideas for teachers to use in involving children as photographers, filmmakers, videotapers, and sound-seekers. *Children and TV II: Mediating the Medium* ($5, ACEI members; $6, nonmembers) develops the premise that using children's home TV viewing for educational purposes is practical and advisable. Contents include ways to adapt children's home TV viewing, suggestions for establishing home TV viewing as classroom resource material, 37 Piagetian process activities, and ways which parents and teachers can collaborate in guiding children's TV viewing.

RESOURCE & REFERRAL SERVICE

BEST COPY AVAILABLE

ACTION FOR CHILDREN'S TELEVISION (ACT)
46 Austin Street
Newtonville, Massachusetts 02160
Telephone: (617) 527-7870

ACT is a national nonprofit consumer organization working to encourage diversity and eliminate commercial abuses from children's television. ACT initiates legal reform through petitions to the federal regulatory agencies and promotes public awareness of the issues relating to children's programming through public education campaigns, numerous publications, and national conferences and speaking engagements.

Send a self-addressed stamped envelope to receive TV guidelines and a list of books, films, posters, resource lists, booklets, and other materials about children and TV.

CBS TELEVISION READING PROGRAM
51 West 52nd Street
New York, New York 10019
Telephone: (212) 975-8001
Contact: Joan Green, Manager, Affiliate Services

The CBS Television Reading Program prepares matched-to-broadcast scripts and teacher guides to accompany selected prime-time television programs aired by CBS. This nationwide project is designed to use children's enthusiasm for TV to help improve their reading skills and to increase their motivation for further reading, learning, and creative thinking. Working through CBS-affiliated stations around the country, this reading program offers a variety of programs each season with an attempt to span the interests of all grade levels. Since the reading program began in 1977, it has grown until almost all CBS affiliates have participated. More than 25 million scripts have been distributed nationally.

Local participating CBS stations receive scripts of selected programs, work with local educators to choose programs for local use, and either duplicate scripts and guides through a local newspaper or obtain copies from a national distributor. Students read the scripts in class prior to broadcast and then refer to them at home while watching the broadcast with their families. The guides help teachers initiate class discussions and involve students in a variety of additional reading, writing, and creative projects stemming from their intensive work with the script.

"CBS Television Reading Program," a brochure explaining the reading program, is available free upon request from the above address. Contact your local CBS affiliate if you are interested in participating in the CBS Television Reading Program.

TEACHERS GUIDES TO TELEVISION (TGT)
699 Madison Avenue
New York, New York 10021
Telephone: (212) 688-0033
Contact: Gloria Kirshner, Editor

TGT, a nonprofit organization that has had a relationship with the Television Information Office, each year arranges television coverage for the TGT-sponsored National Student/Parent Mock Elections. TGT also previews TV shows on commercial and Public Broadcasting Stations (PBS) and publishes a publication by the same name twice a year ($5 a year). Each issue of *Teachers Guides to Television* contains listing of and study guides to selected programs of educational value. These guides can be used with both elementary and secondary students. Currently rearranging contacts with the world of TV, TGT is in the process of revising and reorganizing its publication to include more information. The fall issue, to be issued at a later date, may expand coverage, for example, to include film. (The intent is to enrich the coverage to be more useful to teachers.) All current subscriptions will be honored.

ASSOCIATION FOR EDUCATIONAL COMMUNICATIONS AND TECHNOLOGY (AECT)
1126 16th Street, NW
Washington, D.C. 20036
Telephone: (202) 466-4780
Contact: Reginald Timmons, Publications Assistant

AECT is a membership organization for professionals in the field of Educational Communications and Technology. Several AECT periodicals (listed below) frequently report on research and current events in the field of Instructional Television (ITV). Included in AECT membership ($50) is a bimonthly newsletter entitled *Access* (for members only) and a magazine entitled *Instructional Innovator* ($24 a year for nonmembers). Two quarterly journals are also available: *Educational Communication and Technology* ($20 for members; $15 for graduate student members; $24 for nonmembers) and *Journal of Instructional Development* ($20 for members; $15 for graduate student members; $24 for nonmembers).

A collection of AECT journal articles concerning innovative and practical ways to use telecommunications for learning has been published in a book called *Learning Via Telecommunications*, a 1978 publication ($8.50 for members; $9.95 for nonmembers). This collection of articles cuts across all educational settings and populations. For more information on AECT publications, write or call for a current catalog.

PRIME TIME SCHOOL T.V. (PTST)
212 West Superior
Chicago, Illinois 60603
Telephone: (312) 787-7600
Contact: Carolyn Smith, Membership Director

PTST is a national, nonprofit organization that produces and distributes study materials covering television specials and series on commercial, cable, and public television networks. PTST offers monthly study guides ($27 a year for individuals; $20 when ordering 10 or more subscriptions). These guides include program synopses of selected television programs, programming calendars, and teaching activities and resources.

Also available from PTST is a nationally field-tested curriculum unit on television and economics designed to use regularly scheduled programs to teach economics and economic skills. This 80-page curriculum unit, *Television in Economics: From the Medium to the Market Place* ($15), contains curriculum guides, viewing logs, and all the necessary instructional materials. It is intended for the secondary school level; some users have successfully adapted the unit to the upper elementary and junior high grades.

NATIONAL COALITION ON TELEVISION VIOLENCE (NCTV)
Monitoring & Newsletter Office
P.O. Box 2157
Champaign, Illinois 61820
Telephone: (217) 384-1920
Contact: Thomas Radecki, Chairperson

NCTV, an organization that monitors and researches violence in film and television, is committed to decreasing the amount of violence in these media. Founded in 1980, NCTV serves its membership of 3000 primarily through two kinds of publications: News releases and a newsletter entitled *NCTV News*. The latter publication, which is issued six to eight times a year, includes reviews of Hollywood films and television programs airing Saturday morning and during prime-time hours, research on violence, legislation, and citizen action. Group rates are available for newsletter subscriptions ($25 for the first name and $2 for each additional name submitted; 100 copies of a single issue cost $15). The *Review of Scientific Literature and Bibliography* costs $6; violence monitoring guidelines, $1; and a pamphlet on how to change TV viewing habits, $0.20 each for 1 to 9 copies ($0.12 each for 12-50 copies and $0.07 each for over 50 copies). Information on starting local chapters costs $1.

Appendix D:

Examples of Information Contributed to Electronic Networks

ADVOCNET (Memo Newswire)

SPRING AND SUMMER BRING ASSORTMENT OF MEETINGS NATIONWIDE

Here's a listing of upcoming professional meetings through June 1985. These have been selected from the listings of the RESOURCE AND REFERRAL SERVICE [RRS] housed at The National Center for Research in Vocational Education.

For more information about the RESOURCE AND REFERRAL SERVICE [sponsored by the National Institute of Education], use the "READER RESPONSE" Service Code 7.

May 19-24 41st ANNUAL ASTD CONFERENCE: "HRD Means Business" Anaheim, CA
CONTACT: American Society for Training and Development 202/484-2390

FREE RESOURCE LISTS AVAILABLE VIA MEMO NEWSWIRE (6/25/85)

The Resource and Referral Service [sponsored by the National Institute of Education] at the National Center for Research in Vocational Education will give you free resource lists on a range of interesting topics. These mini-lists identify 8-15 organizations that provide information, products, or services on topics of current interest.

You can have the ones you want at no cost, either as single copies or in quantities for distribution at staff meetings, workshops, or other events.

Use the READER RESPONSE Service Code 7 here in MEMO NEWSWIRE to order titles from the list below. Jot the numbers and titles you want first. Then proceed to READER RESPONSE Service Code 7 and enter your request. Be sure to tell us how many you want of each title:

Number Title
2 Evaluating Teacher Performance

More?...[Yes or No] —y
12 Bilingual Education

RESEARCH YOU CAN USE #4—A BRIEF SUMMARY OF FINDINGS ON EDUCATION AND EMPLOYMENT

Young workers should know what employers' standards are for hiring and performing on the job. This finding is based on a study that examined the perceptions of high school graduates and employers' reports of hiring, job performance standards, and employment outcomes. High school students completed questionnaires at the beginning and end of their senior year and 1 year after graduation. Their employers were surveyed at the 1-year follow-up.

Employers were influenced to hire youth who:

- Looked clean and neat at the interview
- Filled out the job application neatly and correctly and attached a resume
- Showed interest by asking questions about the job
- Called the employer after the interview to indicate interest in the job

Employers tended to reject youth who

- Falsified the job application
- Could not read well
- Were absent a lot and showed low effort on the previous job
- Had high job turnover

Employers were inclined to fire workers who did not follow company rules and policies or who were not making enough of an effort to be productive—more so than workers who did not perform well because of inadequate basic skills and attitudes.

Young workers who believe that employers have tough hiring and job performance standards have better employment records and receive better job performance evaluations.

To increase youth's employability, educators should:

- Encourage youth to take at least one vocational or career education course
- Provide instruction on employer standards to correspond closely to the student's job search activities
- Provide training in job search strategies
- Make youth aware of the importance of following company rules and policies
- Teach youth how to be more productive on the job

To learn more about the study, use Reader Response Service Code 7. Request an information brochure (Research You Can Use, No. 4) that is free or ordering information for a summary of the study published in the fall 1984 (vol. 2, no. 13) issue of FACTS & FINDINGS, a research series available by subscription for $17.50 per calendar year from National Center Publications.

BEST COPY AVAILABLE

The executive summary and final report are available from ERIC as ED 247 442 and ED 247 443, respectively. The title for both is Youth's Perceptions of Employer Standards: Effects on Employment Outcomes and Employer Evaluations." The authors are Richard J. Miguel and Robert C. Robert C. Foulk.

This is the fourth of a series of eight "research briefs" highlighting findings of studies on education and employment conducted by the National Center for Research in Vocational Education and sponsored by the National Institute of Education. This summary was prepared for MEMO NEWSWIRE by the Resource and Referral Service at the National Center.

Here is a listing of the 9 regional educational laboratories recently funded by the National Institute of Education and the states served by each one.

Appalachia Educational Laboratory, Inc. (AEL)
P.O. Box 1348
Charleston, West Virginia 25325
(304) 347-0400

States Served: Kentucky, Tennessee, Virginia, and West Virginia

Far West Laboratory for Educational Research and Development (FWL)
1855 Folsom Street
San Francisco, California 94103
(415) 565-3151

States Served: Arizona, California, Nevada, Utah

Mid-continent Regional Educational Laboratory (McREL)
4709 Bellaview Avenue
Kansas City, Missouri 64112
(816) 756-2401

States Served: Colorado, Kansas, Missouri, Nebraska, North Dakota, South Dakota, and Wyoming

The Network
290 S. Main St.
Andover, Massachusetts 01810
(800) 225-0688

States Served: Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont

North Central Regional Educational Laboratory
295 Emroy Avenue
Elmhurst, IL 60126
(312) 941-7677

States Served: Illinois, Indiana, Iowa, Michigan, Minnesota, Ohio and Wisconsin

Northwest Regional Exchange
Northwest Regional Educational Laboratory
NWREL)
300 S.W. Sixth Avenue
Portland, Oregon

States Served: Alaska, Hawaii, Idaho, Montana, Oregon and Washington

Research for Better Schools, Inc.
(RBS)
444 North Third Street
Philadelphia, Pennsylvania 19123
(215) 574-9300

States Served: Delaware, District of Columbia, Maryland, New Jersey, and Pennsylvania

Southeastern Regional Council for Educational Improvement
200 Park Offices, Suite 111
Research Triangle Park,
North Caroline 27709
(919) 549-8216

States Served: Alabama, Florida, Georgia, Mississippi, North Carolina, and South Carolina

Southwest Educational Development Laboratory (SEDL)
211 East Seventh Street
Austin, Texas 78701
(512) 476-6861

States Served: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas

BEST COPY AVAILABLE

TO: CCC SDVE SDAE GUID RCU SDPS SLR
SUBJECT: ELECTRONIC NETWORKS
FROM: Jay Smink

The Resource and Referral Service, an NIE-sponsored project at the National Center, is compiling information on electronic networks (mail systems and bulletin boards used for communications, not instruction.) If you know of such networks operating at regional, state, or local levels, please contact Ruth Gordon at AV00010. Thanks for your help.

ED-LINE

****
* Calendar of Activities *
****

1. September Activities
   [Adapted from THE MEETING EXCHANGE,
   National Center for Research in Vocational
   Education (NCRVE]

2. August Activities
   [Adapted from THE MEETING EXCHANGE,
   National Center for Research in Vocational
   Education (NCRVE]

   If there are other conferences, meetings,
   workshops, etc. that you would like for
   us to add to our list, please send that
   information to bbq798.

Enter command or [RETURN] for help: 1

****
**** SEPTEMBER CALENDAR ****
****

September 2, 3, 4, 5, 8 1985
World Conference on Co-operative
 Education
Edinburgh, Scotland
Contact: The Chairman, Local Organizing
 Committee
Fourth World Conference on Co-operative
 Education
Napier College of Commerce and Technology
Colinton Road
Edinburgh EH10 5DT, Scotland

September 4, 5, 8 1985
Making the Training Process Work: A
 Survey Course
Ann Arbor, Michigan
Contact: Donald D. Kelley, Program Director
Executive Education Center
School of Business Administration
University of Michigan
Ann Arbor, Michigan 48109-1234
(313) 764-1379

SpecialNet

POSTED ON SPECIALNET'S TECH.LINE BULLETIN BOARD

Posted: Mon Feb 11, 1985 5:25 PM EST Msg: GGIF-2031-8094
From: ADMIN/TECH.LINE
To: TECH.LINE
Subj: FEB: HELPFUL RESOURCES

RESOURCE AND REFERRAL SERVICE, NCRVE

The Resource and Referral Service, of the National Center for Research in Vocational Education (NCRVE) has recently compiled a Mini-List of 13 organizational resources for using microcomputers in special education. The Mini-List is available at no charge from the NCRVE. Call them toll-free at (800) 848-4815, extension 53 or 54; or write them at The Ohio State University, 1960 Kenny Road, Columbus, OH 43210.

POSTED: TUE MAY 28, 1985 11:08 AM EDT MSG: GGIF-2148-2943
FROM: LINC
TO: LINC.UP
SUBJ: RRS OFFERS FREE RESOURCE LISTS

The Resource and Referral Service (RRS) publishes a series of free "Mini-Lists" of resources available from educational organizations. For example, "Resources for Using Microcomputers in Special Education" provides an annotated listing of resources from 13 different organizations and projects. The Mini-Lists are very handy for anyone providing referral services, and they make excellent handouts at workshops and conferences.

RRS also produces the resource organizations and meetings for educators (ROME) Database, and a biannual calendar of professional meetings. For more information contact Ruth Gordon at 1-800-848-4815 or (614) 486-3655.

RRS is sponsored by The National Institute of Education and is located at The National Center for Research in Vocational Education, Ohio State University.

Education Forum (CompuServe)

These bulletins are posted by the systems operator and are seen when first entering Education Forum.

Short Bulletin:
August 27, 1985

See DLO for new files prepared by the Resource and Referral Service. A nice long list of educational meetings for October has been uploaded to help you begin planning for professional development this fall. You will also find a list of FREE topical resource guides and digests from the ERIC Clearinghouse on Adult, Career and Vocational Education.

Short Bulletin:
September 20, 1985

Remember to check out the list of educational meetings prepared each month by the Resource and Referral Service. RRS also prepares handy resource listings that are distributed free upon request. Browse d10 and find out for yourself.

Short bulletin:

***** SEPTEMBER 28, 1985 *****

Download a calendar of educational meetings from EDMEET.NOV in DLO. EDMEET.PUB tells you how to obtain the full 9-month print version of the MEETINGS EXCHANGE.

[76703,674]
GFTRSC.TXT 24-May-85 4355 18

Keywords: GIFTED TALENTED RESOURCES ORGANIZATIONS MEETINGS

This file contains a listing of organizations and meetings relevant to the education of gifted and talented students. The list was prepared by the Resource and Referral Service, a federally funded project that provides information services to educators and parents. See the end of file for credits and a toll-free number for more information.

Resources for EDUCATING GIFTED AND TALENTED STUDENTS

These organizations offer publications and such services as consulting, technical assistance and staff development. Some also conduct research. Contact the organizations for their publications lists and specific services.

COUNCIL FOR EXCEPTIONAL CHILDREN/ERIC CLEARINGHOUSE ON
HANDICAPPED AND GIFTED CHILDREN
1920 Association Drive
Reston, Virginia 22091
(703) 620-3660
Contact: Lynn Smarte, Information Specialist

CENTER FOR THE STUDY AND EDUCATION OF THE GIFTED
Box 170
Teachers College
Columbia University
New York, New York 10027
(212) 678-3851

NATIONAL ASSOCIATION FOR CREATIVE CHILDREN AND ADULTS
8080 Springvalley Drive
Cincinnati, Ohio 45236
(608) 263-4200
Contact: Anne Febe Isaacs, Executive Director

NATIONAL ASSOCIATION FOR GIFTED CHILDREN
5100 North Edgewood Drive
St. Paul, Minnesota 55112
(812) 784-3475
Contact: Joyce E. Juntine, Executive Director

NATIONAL STATE LEADERSHIP TRAINING INSTITUTE ON THE GIFTED AND
THE TALENTED
316 West Second Street, Suite PH-C
Los Angeles, California 90012
(213) 489-7470
Contact: Irving S. Sato, Director

OM ASSOCIATION, INC.
OLYMPICS OF THE MIND
PO Box 27
Glassboro, New Jersey 08028
(609) 881-1603
Contact: Carole Micklus, Executive Director

WORLD COUNCIL FOR GIFTED AND TALENTED CHILDREN, INC.
HMS 414
University of South Florida
Tampa, Florida 33620
(813) 974-3638; (813) 974-3888
Contact: Dorothy A. Sisk, Executive Secretary

GUIDANCE INSTITUTE FOR TALENTED STUDENTS
University of Wisconsin—Madison
1000Bascom Mall, Box 48-Old Education Building
Madison, Wisconsin 53706
(608) 263-2748 or (808) 262-2878
Contact: Dennis Van Den Heuvel, Director

THE JOHNS HOPKINS UNIVERSITY CENTER FOR THE ADVANCEMENT OF ACADEMICALLY TALENTED YOUTH
Charles and 34th Streets
Baltimore, Maryland 21218
(301) 338-8427

STAFF DEVELOPMENT:

National-State Leadership Training Institute on the Gifted and the Talented offers several inservice programs. Contact Lita Bennett, (213) 489-7470 for full information.

June 24-28 EASTERN SUMMER INSTITUTE, Boston, MA

July 9-12 HAWAII SUMMER INSTITUTE, Honolulu, HI

October 7-8 AN ADVANCED SEMINAR ON CURRICULUM DEVELOPMENT; A CORE-TYPE CURRICULUM FOR THE GIFTED, Austin, TX

October 17-18 CURRICULUM DEVELOPMENT FOR THE GIFTED/TALENTED; BEGINNING AND INTERMEDIATE, Minneapolis, MN

October 21-22 GIFTED/TALENTED PROGRAM ADMINISTRATION AND MANAGEMENT, New Orleans, LA

November 14-15 STRATEGIES TO IMPROVE PRODUCTIVE THINKING OF THE GIFTED/TALENTED, Little Rock, AR

November 18-19 CLASSROOM MANAGEMENT: FINDING TIME, ORGANIZING AND INDIVIDUALIZING FOR THE GIFTED IN THE REGULAR CLASSROOM

Other meetings of interest are:

July 22-24 NATIONAL CURRICULUM STUDY INSTITUTE: CURRICULUM DESIGN FOR GIFTED AND TALENTED STUDENTS, Vale, CO, Association for Supervision and Curriculum Development, (703) 549-9110

August 5-9 SIXTH WORLD CONFERENCE ON GIFTED AND TALENTED CHILDREN, Hamburg, West Germany, World Council for Gifted and Talented Children, (813) 974-3638

November 1-6 NATIONAL ASSOCIATION FOR GIFTED CHILDREN ANNUAL MEETING, Denver, CO, National Association for Gifted Children, (612) 784-3475

March 31-April 3 COUNCIL FOR EXCEPTIONAL CHILDREN ANNUAL MEETING, Council for Exceptional Children, (703) 620-3660

These resources were contributed by the Resource and Referral Service (RRS). RRS produces the Resource Organizations and Meetings for Educators (ROME) database, available through BRS Information Technologies; Mini-Lists of organizational resources on a particular topic; and a biannual calendar of professional meetings. For more information on RRS, contact Ruth Gordon at (800) 848-4815 or (614) 486-3655 or BCD805 on the Source.

RRS is sponsored by the National Institute of Education and located at the National Center for Research in Vocational Education, Ohio State University.

[76703,674]
EDMEET.SEP 20-Jun-85 10370 14

Keywords: EDUCATIONAL MEETINGS CONFERENCES SEMINARS TRAINING WORKSHOPS SEPTEMBER 1985

This is a comprehensive list of meetings of interest to educators and trainers. Title, date, location, sponsor, and contact information are provided. Compiled by the Resource and Referral Service. September 1985.

[76703,674]
EDMEET.OCT 27-Aug-85 58195 3

Keywords: EDUCATIONAL MEETINGS CONFERENCES SEMINARS TRAINING WORKSHOPS OCTOBER 1985

This is a comprehensive list of meetings of interest to educators and trainers. Title, date, location, sponsor, and contact information is provided. Compiled by the Resource and Referral Service, an NIE-funded project.

[70007,1375]
EDMEET.NOV 24-Sep-85 32300

Keywords: EDUCATIONAL MEETINGS CONFERENCES SEMINARS TRAINING WORKSHOPS

This is a comprehensive list of meetings of interest to educators. Title, date, location, sponsor, and contact information is provided. Compiled by the Resource and Referral Service.

TI...American Association for Adult and Continuing Education Annual Meeting : "Lifelong Learning: Key to Living"
DA...Nov-6, 7, 8, 9, 10 1985
LO...Milwaukee, Wisconsin
C2...American Association for Adult and Continuing Education
C3...1201 16th Street, NW #230
C4...Washington, DC 20036
PH...(202) 822-7866
SP...American Association for Adult and Continuing Education

Keywords: MINI-LISTS EDUCATIONAL RESOURCES FREE REFERRALS TOPICAL INTERESTS

This file lists titles of "Mini-Lists"—handy reference guides to resources available on various topical educational concerns—that may be obtained free of charge from the Resource and Referral Service. Complete ordering information is included. Highly recommended!

FREE RESOURCES FROM THE NATIONAL CENTER

Mini-Lists identify 8 to 15 organizations that provide information, products, or services on topics of current interest to educators. Mini-Lists are available at no cost as single copies or in quantity for distribution at workshops or meetings. Here are titles you can order:

Quantity	Number	Title
_____	2	Evaluating Teacher Performance
_____	12	Bilingual Education
_____	17	Preventing Child Abuse and Neglect
_____	34	Learning Styles
_____	35	Alcohol and Drug Abuse
_____	37	Reading at the Secondary Level
_____	38	Science Education
_____	39	Principal as Instructional Leader
_____	40	School Learning Climate
_____	41	Adult Literacy
_____	42	Inservice Education
_____	43	Using Microcomputers in Special Education
_____	44	Using Television in Education (K-12)
_____	45	K-12 Televised Instruction Products
_____	48	Nutrition Education

You can use this printout as an order form by indicating the titles and quantity desired. Or call toll free at the number listed below.

Name_____

Position_____

Organization_____

Street Address_____

City_____State_____Zip_____

Resource and Referral Service
National Center for Research in Vocational Education
1960 Kenny Road
Columbus, Ohio 43210-1090
Toll free 800-848-4815 (outside Ohio and in the continental U.S.) or 614-486-3655, ext. 53
Contact: Ruth Gordon, Program Associate

The Resource and Referral Service is funded by the National Institute of Education.

Keywords: ERIC ADULT CAREER AND VOCATIONAL EDUCATION FREE INFORMATION

This file lists free information and topical bibliographies prepared by the ERIC Clearinghouse on Adult, Career and Vocational Education at The Ohio State University.

FREE RESOURCES FROM THE NATIONAL CENTER

Here is a listing of recent publications available free of charge from the ERIC Clearinghouse on Adult, Career, and Vocational Education [ERIC/ACVE.]

DIGESTS are summaries of information on selected topics. MINI-BIBS are short bibliographies on topics of current interest that highlight relevant documents in the ERIC database.

DIGESTS

	NO.	TITLE
_____	26	Career Education for the Underemployed
_____	27	Career Development in Adult Basic Education
_____	28	Human Resource Development
_____	29	Retirement Education Programs
_____	30	Part-Time Teachers in Adult & Vocational Education
_____	31	Effective Schools Research & Vocational Education
_____	32	Effects of Career Education on Student Achievement & Retention
_____	33	Time on Task in Vocational Education
_____	34	Employers' Expectations of Vocational Education
_____	35	Learning the New Basics through Vocational Education
_____	36	Private Sector Involvement in Vocational Education
_____	37	Education for High-Technology Jobs
_____	38	Retirement Policy
_____	39	Vocational Education and Defense Preparedness
_____	40	Adult Literacy Education
_____	41	Adult Development

MINI-BIBS

_____ Recognizing Student Achievement in Adult & Vocational Education
_____ Job Search Methods
_____ Monitoring and Assessing Student Performance in Vocational Education
_____ Technological Literacy
_____ Microcomputers in Adult and Vocational Education

INFORMATION BROCHURES

_____ Complete list of no-cost items available
_____ Information on the ERIC/ACVE Clearinghouse .
_____ General information on the ERIC system (ERIC/ACVE is one of 16 ERIC Clearinghouses sponsored by the National Institute of Education.)

Send your request to Ruth Gordon at 70007,1375. Or, you can use your printout as an order form by checking the titles desired. Mail your order to ERIC Clearinghouse on Adult, Career, and Vocational Education, The National Center for Research in Vocational Education, 1960 Kenny Road, Columbus, OH 43210-1090.

Name_____

Position_____

Organization_____

Address_____

City_____State_____Zip_____

To find out more about the ERIC system, you can call toll free 800-848-4815 (outside Ohio and in the continental U.S.) or 614-486-3655. Judy Wagner, User Services Coordinator, will answer any questions you may have about ERIC.

IF YOU TELEPHONE, PLEASE MENTION THAT YOU SAW THIS ON COMPUSERVE!

This listing of free resources was contributed by the Resource and Referral Service, a National Center project sponsored by the National Institute of Education.

[70007,1375]
EDMEET.PUB 20-Sep-85 675 1 22-Sep-85

Keywords: EDUCATIONAL MEETINGS CONFERENCES SEMINARS WORKSHOPS INDEXES

This file gives availability of a publication that is a 9-month calendar of professional meetings indexed by location, sponsor, and subject.

If you like to plan ahead, a calendar of 500 professional meetings, conferences, and workshops is available for $5.75. Produced twice a year by the Resource & Referral Service [see EDMEET files], the Sept. issue is now ready and covers the time period Oct. 1985-June 1988. The meetings are indexed by location, subject, and sponsor. ORDERING INFORMATION: Order no. SN 40, prepaid [payable to the National Center for Research in Vocational Education.] Mail to: National Center Publications, Box F, National Center for Research in Vocational Education, 1960 Kenny Road, Columbus, OH 43210-1090. Ruth Gordon [70007,1375] can answer questions.

MVEIS

Welcome to the

Michigan Vocational Education

Information System

[Developed under a grant from The State Board
of Education, Michigan Department of Education,
Vocational Technical Education Service]

**********OUT STATE CONFERENCES**********

Jan. 17-22 AECT Annual Meeting
Anaheim For Information Contact: AECT, 1126 16th St., N.W., Washington, D.C., 20036
Phone: (202) 466-4780

Jan. 24-25 Japanese Manufacturing Techniques
Cincinnati For Information Contact: Registrar, IIE, 25 Technology Park, Norcross, GA, 30092, (404) 449-0460

Jan. 24 National Curr. Study Inst. Computer Ed. Seminar
San Jose & Field Trip
For Information Contact: Assn. for Supervision & Curr. Dev., 225 N. Washington St., Alexandria, Virginia, 22314.
Phone: (703) 549-9110

Jan. 24-28 13th Southwest IRA Regional Conference
Albuquerque For Information Contact: International Reading Assn., 800 Barkadale Rd., P.O. Box 8139, Newark, Delaware, 19714
Phone: (302) 731-1600

Jan. 25-29 NASSP Annual Convention
New Orleans For Information Contact: NASSP, 1904 Association Dr., Reston, VA 22091
Phone: (703) 860-0200

Portions of the above conferences are courtesy of the "ROME" Database prepared by the Resource and Referral Service of the National Center for Research in Vocational Education. If you have an event you would like posted on "ROME" contact Dr. Ruth Gordon at the National Center, Toll Free 1-800-848-4815.

RESOURCE AND REFERRAL SERVICE (RRS) MINI-LISTS

Mini-Lists identify eight to fifteen organizations that can provide information, products, or services on topics of current interest. Mini-Lists are available free of charge, either as single copies or in quantity for distribution at workshops or meetings. Current titles available are listed below.

Contact: Ruth Gordon
National Center for Research in Vocational Education
1960 Kenny Rd.
Columbus, OH 43210

Number:	Title:	Date:
1.	Resources for Competency Based High School Graduation Requirements	1/82
2.	Evaluating Teacher Performance	10/83
3.	School Energy Needs	10/79
4.	Assessing Student Competencies	5/82
6.	Metric Evaluation	10/77
7.	Citizen Involvement in Education	12/81
8.	Educating Gifted and Talented	2/80
9.	K-12 Instructional Materials on Women's Ed. Equity	10/78
10.	Developing Individualized Ed. Programs (IEP'S) for Handicapped Students	7/78
11.	Financial Information for School Districts	4/82
12.	Bilingual Education	5/83
13.	Reducing and Preventing School Violence and Vandalism	10/80
14.	Full Utilization of School Facilities	5/78
16.	Access Innovative Ed. Programs	11/80
17.	Preventing Child Abuse and Neglect	2/84
18.	Parent Education	8/81
19.	Competency-Based Adult Ed.	10/81
20.	Nutrition Education	1/79
21.	Helping the Handicapped Gain Access to Ed. Programs	6/79
22.	School Discipline	10/81
24.	School Desegregation	9/79
25.	Non-Discriminatory Testing and Measurement	11/79
26.	Consumer Education	4/80
28.	Assessing Oral and Written Communication Skills	7/80
29.	Developing Oral and Written Communication Programs	8/80
30.	Microcomputers in Education	2/83
31.	Rural Education	7/81
32.	Stress Management	10/81
33.	Home Study	7/82

34.	Learning Styles	9/82
35.	Alcohol and Drug Abuse	10/82
36.	High Technology	11/82
37.	Reading at the Secondary Level	4/83
38.	Science Education	7/83
39.	Principal as Instructional Leader	9/83
40.	School Learning Climate	4/84
41.	Adult Literacy	5/84
42.	Inservice Education	7/84
43.	Using Microcomputers in Special Education	9/84
44.	Using Television in Education (K-12)	10/84
45.	K-12 Televised Instruction Products	2/85

Appendix E: Resources

The following publications cover the topic of electronic communications.

Directories

BBS Directory. A directory of over 700 bulletin boards in North America. Available from BBS Directory, P.O. Box 4150-A, Vero Beach, FL 32964 (305) 231-6435. MODEM: 7 p.m. to 9 a.m. and 24 hours on weekends; answered by VOICE other hours.

Conners, Martin, ed. Telecommunications Systems and Services Directory. 2nd ed. Detroit, MI: Gale Research Company, November 1985. An international comprehensive guide to organizations, systems, and services.

Newsletters, Periodicals

Bulletin Board Systems. A newsletter devoted to personal telecommunications. Published eight times a year. A subscription includes a directory of over 1,000 bulletin board telephone numbers. Available by subscription from Meckler Publishing Company, 11 Ferry Lane West, Westport, CT 06880, (203) 226-6967. Also available in electronic form on NewsNet.

DATABASE. The Magazine of Database Reference and Review. A quarterly publication with articles, columns, and special features. The Databank section includes a directory of databanks for persons who have access to a computer. Available by subscription from ONLINE, Inc., 11 Tannery Lane, Weston, CT 06883, (203) 227-8466.

EMMS. Electronic Mail & Micro Systems. A semimonthly newsletter covering technology, user, product, and legislative trends in graphic, record, and microcomputer communications. Available by subscription from EMMS, 6 Prowett Street, Norwalk, CT 06855, (203) 866-7800.

LINK-UP. Online and Videotex for Business, Personal, and Education Use. Covers a wide range of news and features in "tabloid" newspaper format. Includes a listing of bulletin boards accessible by direct dial. Eleven issues per year. Available by subscription from Learned Information, Inc., 143 Old Marlton Pike, Medford, NJ 08055, (609) 654-6462.

ONLINE. The magazine of Online Information Systems. A bimonthly publication with feature articles, columns, and special features. The Databank section includes a directory of databanks for persons who have access to a computer. Available by subscription from ONLINE, Inc., 11 Tannery Lane, Weston, CT 06883, (203) 227-8466.

Online Today. The Computer Communications Magazine. A monthly magazine that features CompuServe's services. Available by subscription from CompuServe, Inc., 5000 Arlington Centre Boulevard, P.O. Box 20212, Columbus, OH 43220, (614) 457-8600.

Information Today. The Newspaper for Users and Producers of Electronic Information Services. Published monthly, the newsletter includes feature articles, new products, and news announcements. Available by subscription from Learned Information, Inc., 143 Old Marlton Pike, Medford, NJ 08055.

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